



# SAFETY DATA SHEET

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

### 1.1. Product identifier

**Trade name or designation of the mixture** LPS® Cold Galvanize  
**Registration number** -  
**Synonyms** None.  
**Part Number** 05128, M05128  
**Issue date** 08-September-2016  
**Version number** 01

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

**Identified uses** A zinc rich industrial maintenance primer designed for rust and corrosion protection.  
**Uses advised against** None known.

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

**Supplier** Alsco Ltd  
**Company name** Unit 13 Hillmead Industrial Estate  
**Address** Marshall Road  
Swindon, Wiltshire  
United Kingdom SN5 5FZ  
**Telephone** +44 1793 733 900  
**In Case of Emergency** +001 703-527-3887  
**Manufacturer**  
**Company name** ITW Pro Brands  
**Address** 4647 Hugh Howell Rd., Tucker, GA 30084 (U.S.A.)  
**Website** <http://www.lpslabs.com>  
**e-mail** [lpssds@itwprobrands.com](mailto:lpssds@itwprobrands.com)

## 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, Xn;R20/21-48, Xi;R36/38, R43, N;R50/53

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 vapour.
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##### Health hazards

Acute toxicity, dermal	Category 4	H312 - Harmful in contact with skin.
Acute toxicity, inhalation	Category 4	H332 - Harmful if inhaled.
Skin corrosion/irritation	Category 2	H315 - Causes skin irritation.
Serious eye damage/eye irritation	Category 2	H319 - Causes serious eye irritation.
Skin sensitisation	Category 1B	H317 - May cause an allergic skin reaction.
Carcinogenicity	Category 2	H351 - Suspected of causing cancer.
Reproductive toxicity	Category 2	H361 - Suspected of damaging fertility or the unborn child.
Specific target organ toxicity - repeated exposure	Category 1 (Central nervous system)	H372 - Causes damage to organs (Central nervous system) through prolonged or repeated exposure.

Specific target organ toxicity - repeated exposure

Category 2 (auditory organ, lung, kidney)

H373 - May cause damage to organs (auditory organ, lung, kidney) through prolonged or repeated exposure.

### Environmental hazards

Hazardous to the aquatic environment, long-term aquatic hazard

Category 1

H410 - Very toxic to aquatic life with long lasting effects.

### Hazard summary

#### Physical hazards

Highly flammable.

#### Health hazards

May cause cancer. May impair fertility. May cause harm to the unborn child. Also harmful by inhalation and in contact with skin. Irritating to eyes and skin. May cause sensitisation by skin contact. Danger of serious damage to health by prolonged exposure. Occupational exposure to the substance or mixture may cause adverse health effects.

#### Environmental hazards

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### Specific hazards

Prolonged exposure may cause chronic effects.

#### Main symptoms

Narcosis. Behavioural changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing. Discomfort in the chest. Shortness of breath. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. Oedema. Prolonged exposure may cause chronic effects.

## 2.2. Label elements

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

#### Contains:

Ethylbenzene, Methyl ethyl ketone, Mineral Spirits Regular Stoddard Solvent, Toluene, Xylene

#### Hazard pictograms



#### Signal word

Danger

#### Hazard statements

H225	Highly flammable liquid and vapour.
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.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs (Central nervous system) through prolonged or repeated exposure.
H373	May cause damage to organs (auditory organ, lung, kidney) through prolonged or repeated exposure.
H410	Very 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 vapour.
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.
P272	Contaminated work clothing should not be allowed out of the workplace.
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.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P337 + P313 If eye irritation persists: Get medical advice/attention.  
 P362 + P364 Take off contaminated clothing and wash it before reuse.  
 P370 + P378 In case of fire: Use appropriate media to extinguish.  
 P391 Collect spillage.

**Storage**

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** 23,1 % of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment. None known.

**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
Metallic Zinc	60 - 70	7440-66-6 231-175-3	-	030-001-01-9	
<b>Classification:</b>		<b>DSD:</b> F;R15-R17, N;R50/53			
		<b>CLP:</b> Pyr. Sol. 1;H250, Aquatic Chronic 1;H410			T
Acetone	5 - 10	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> Flam. Liq. 2;H225, Eye Irrit. 2;H319, STOT SE 3;H336			
Xylene	1 - 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
Ethylbenzene	1 - 3	100-41-4 202-849-4	-	601-023-00-4	#
<b>Classification:</b>		<b>DSD:</b> F;R11, Xn;R20-65-48/20			
		<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			
Mineral Spirits Regular Stoddard Solvent	1 - 3	8052-41-3 232-489-3	-	649-345-00-4	
<b>Classification:</b>		<b>DSD:</b> Xn;R65-48/20			P
		<b>CLP:</b> Flam. Liq. 3;H226, Asp. Tox. 1;H304, STOT RE 1;H372			P
Zinc oxide	1 - 3	1314-13-2 215-222-5	-	030-013-00-7	
<b>Classification:</b>		<b>DSD:</b> N;R50/53			
		<b>CLP:</b> Aquatic Chronic 1;H410			
Toluene	0,1 - 1	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, Acute Tox. 4;H332, STOT SE 3;H336, STOT RE 2;H373, Aquatic Chronic 2;H411			

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Silica, amorphous	< 1	7631-86-9 231-545-4	-	-	
<b>Classification:</b>		<b>DSD:</b> T+;R26			
		<b>CLP:</b> Acute Tox. 2;H330			
Silicic Acid, Calcium Salt	< 1	1344-95-2 215-710-8	-	-	
<b>Classification:</b>		<b>DSD:</b> T;R23			
		<b>CLP:</b> Acute Tox. 3;H331			

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

DSD: Directive 67/548/EEC.

CLP: Regulation No. 1272/2008.

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

M: M-factor

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Note P: The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7).

**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 CENTRE or doctor/physician if you feel unwell.

**Skin contact** Remove contaminated clothing immediately and wash skin with soap and water. Get medical advice/attention if you feel unwell. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.

**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 advice/attention if you feel unwell.

**4.2. Most important symptoms and effects, both acute and delayed** Narcosis. Behavioural changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing. Discomfort in the chest. Shortness of breath. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. Oedema. Prolonged exposure may cause chronic effects.

**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 vapour.

### 5.1. Extinguishing media

**Suitable extinguishing media** Water fog. Foam. Dry chemical powder. Dry sand. 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

Vapours may form explosive mixtures with air. Vapours 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. Do not breathe mist or vapour. 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. Use personal protection recommended in 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. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

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

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. The product is immiscible with water and will spread on the water surface. Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. 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. Put material in suitable, covered, labeled containers.

### 6.4. Reference to other sections

Use personal protection recommended in Section 8 of the SDS. For waste disposal, see section 13.

## 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. 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 vapour. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. 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.

### 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	Form
Acetone (CAS 67-64-1)	MAK	1200 mg/m3	
	STEL	500 ppm 4800 mg/m3	
Ethylbenzene (CAS 100-41-4)	Ceiling	2000 ppm	
		880 mg/m3	

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

Components	Type	Value	Form
	MAK	200 ppm 440 mg/m3	
Silica, amorphous (CAS 7631-86-9)	MAK	100 ppm 4 mg/m3	Inhalable fraction.
Toluene (CAS 108-88-3)	MAK	190 mg/m3	
	STEL	50 ppm 380 mg/m3	
Xylene (CAS 1330-20-7)	MAK	100 ppm 221 mg/m3	
	STEL	50 ppm 442 mg/m3	
Zinc oxide (CAS 1314-13-2)	MAK	100 ppm 5 mg/m3	Fume and respirable dust.

**Belgium. Exposure Limit Values.**

Components	Type	Value	Form
Acetone (CAS 67-64-1)	STEL	2420 mg/m3	
	TWA	1000 ppm 1210 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	500 ppm 551 mg/m3	
	TWA	125 ppm 442 mg/m3	
Mineral Spirits Regular Stoddard Solvent (CAS 8052-41-3)	TWA	100 ppm 533 mg/m3	
Silicic Acid, Calcium Salt (CAS 1344-95-2)	TWA	100 ppm 10 mg/m3	
Toluene (CAS 108-88-3)	STEL	384 mg/m3	
	TWA	100 ppm 77 mg/m3	
Xylene (CAS 1330-20-7)	STEL	20 ppm 442 mg/m3	
	TWA	100 ppm 221 mg/m3	
Zinc oxide (CAS 1314-13-2)	STEL	50 ppm 10 mg/m3	Fume. Respirable fraction.
	TWA	10 mg/m3 5 mg/m3	Fume. Respirable fraction.
		2 mg/m3 10 mg/m3	Respirable fraction. Dust.

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

Components	Type	Value	Form
Acetone (CAS 67-64-1)	STEL	1400 mg/m3	
	TWA	600 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	545 mg/m3	
	TWA	435 mg/m3	
Silica, amorphous (CAS 7631-86-9)	TWA	10 mg/m3	Inhalable fraction.
Toluene (CAS 108-88-3)	STEL	0,07 mg/m3 384 mg/m3	Respirable fraction.
	TWA	100 ppm 192 mg/m3	
Xylene (CAS 1330-20-7)	STEL	50 ppm 442 mg/m3	
		100 ppm	

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

Components	Type	Value	Form
Zinc oxide (CAS 1314-13-2)	TWA	221 mg/m3	
		50 ppm	
	STEL	10 mg/m3	
	TWA	5 mg/m3	

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

Components	Type	Value	Form
Acetone (CAS 67-64-1)	MAC	1210 mg/m3	
		500 ppm	
	STEL	3620 mg/m3	
Ethylbenzene (CAS 100-41-4)	MAC	1500 ppm	
		442 mg/m3	
	STEL	100 ppm	
Silica, amorphous (CAS 7631-86-9)	MAC	884 mg/m3	Total dust.
		200 ppm	
		6 mg/m3	
Silicic Acid, Calcium Salt (CAS 1344-95-2)	MAC	2,4 mg/m3	Respirable dust.
		4 mg/m3	Respirable dust.
		10 mg/m3	Total dust.
Toluene (CAS 108-88-3)	MAC	192 mg/m3	
		50 ppm	
	STEL	384 mg/m3	
Xylene (CAS 1330-20-7)	MAC	100 ppm	
		221 mg/m3	
	STEL	50 ppm	
Zinc oxide (CAS 1314-13-2)	MAC	442 mg/m3	
		5 mg/m3	
	STEL	10 mg/m3	

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

Components	Type	Value	Form
Silica, amorphous (CAS 7631-86-9)	TWA	2 mg/m3	
Zinc oxide (CAS 1314-13-2)	TWA	5 mg/m3	Fume.

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

Components	Type	Value
Acetone (CAS 67-64-1)	Ceiling	1500 mg/m3
	TWA	800 mg/m3
Ethylbenzene (CAS 100-41-4)	Ceiling	500 mg/m3
	TWA	200 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
Zinc oxide (CAS 1314-13-2)	Ceiling	5 mg/m3
	TWA	2 mg/m3

**Denmark. Exposure Limit Values**

Components	Type	Value
Acetone (CAS 67-64-1)	TLV	600 mg/m3
		250 ppm
Ethylbenzene (CAS 100-41-4)	TLV	217 mg/m3
		50 ppm
Mineral Spirits Regular Stoddard Solvent (CAS 8052-41-3)	TLV	145 mg/m3
		25 ppm
Toluene (CAS 108-88-3)	TLV	94 mg/m3

**Denmark. Exposure Limit Values**

Components	Type	Value
Xylene (CAS 1330-20-7)	TLV	25 ppm
		109 mg/m <sup>3</sup>
Zinc oxide (CAS 1314-13-2)	TLV	25 ppm
		4 mg/m <sup>3</sup>

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

Components	Type	Value	Form
Acetone (CAS 67-64-1)	TWA	1210 mg/m <sup>3</sup>	
Ethylbenzene (CAS 100-41-4)	STEL	500 ppm	
		884 mg/m <sup>3</sup>	
Mineral Spirits Regular Stoddard Solvent (CAS 8052-41-3)	TWA	200 ppm	
		442 mg/m <sup>3</sup>	
Mineral Spirits Regular Stoddard Solvent (CAS 8052-41-3)	STEL	100 ppm	
		600 mg/m <sup>3</sup>	
Silica, amorphous (CAS 7631-86-9)	TWA	300 mg/m <sup>3</sup>	Respirable dust.
		50 ppm	
Silicic Acid, Calcium Salt (CAS 1344-95-2)	TWA	2 mg/m <sup>3</sup>	
Toluene (CAS 108-88-3)	STEL	10 mg/m <sup>3</sup>	
		384 mg/m <sup>3</sup>	
Toluene (CAS 108-88-3)	TWA	100 ppm	
		192 mg/m <sup>3</sup>	
Xylene (CAS 1330-20-7)	STEL	50 ppm	
		450 mg/m <sup>3</sup>	
Xylene (CAS 1330-20-7)	TWA	100 ppm	
		200 mg/m <sup>3</sup>	
Zinc oxide (CAS 1314-13-2)	TWA	50 ppm	
		5 mg/m <sup>3</sup>	

**Finland. Workplace Exposure Limits**

Components	Type	Value	Form
Acetone (CAS 67-64-1)	STEL	1500 mg/m <sup>3</sup>	
		630 ppm	
Acetone (CAS 67-64-1)	TWA	1200 mg/m <sup>3</sup>	
		500 ppm	
Ethylbenzene (CAS 100-41-4)	STEL	880 mg/m <sup>3</sup>	
		200 ppm	
Ethylbenzene (CAS 100-41-4)	TWA	220 mg/m <sup>3</sup>	
		50 ppm	
Toluene (CAS 108-88-3)	STEL	380 mg/m <sup>3</sup>	
		100 ppm	
Toluene (CAS 108-88-3)	TWA	81 mg/m <sup>3</sup>	
		25 ppm	
Xylene (CAS 1330-20-7)	STEL	440 mg/m <sup>3</sup>	
		100 ppm	
Xylene (CAS 1330-20-7)	TWA	220 mg/m <sup>3</sup>	
		50 ppm	
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m <sup>3</sup>	Fume.
		2 mg/m <sup>3</sup>	Fume.

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

Components	Type	Value	Form
Acetone (CAS 67-64-1)	VLE	2420 mg/m <sup>3</sup>	
		1000 ppm	
Acetone (CAS 67-64-1)	VME	1210 mg/m <sup>3</sup>	
		500 ppm	



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

Components	Type	Value	Form
Ethylbenzene (CAS 100-41-4)	VLE	442 mg/m3	
		100 ppm	
Toluene (CAS 108-88-3)	VME	88,4 mg/m3	
		20 ppm	
	VLE	384 mg/m3	
Xylene (CAS 1330-20-7)	VME	76,8 mg/m3	
		20 ppm	
	VLE	442 mg/m3	
Zinc oxide (CAS 1314-13-2)	VME	100 ppm	
		221 mg/m3	
		50 ppm	
	VME	5 mg/m3	Fume.
		10 mg/m3	Dust.

**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
Acetone (CAS 67-64-1)	TWA	1200 mg/m3	
		500 ppm	
Ethylbenzene (CAS 100-41-4)	TWA	88 mg/m3	
		20 ppm	
Metallic Zinc (CAS 7440-66-6)	TWA	2 mg/m3	Inhalable fraction.
		0,1 mg/m3	Respirable fraction.
Silica, amorphous (CAS 7631-86-9)	TWA	4 mg/m3	Inhalable fraction.
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	Form
Acetone (CAS 67-64-1)	AGW	1200 mg/m3	
		500 ppm	
Ethylbenzene (CAS 100-41-4)	AGW	88 mg/m3	
		20 ppm	
Silica, amorphous (CAS 7631-86-9)	AGW	4 mg/m3	Inhalable fraction.
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	Form
Acetone (CAS 67-64-1)	STEL	3560 mg/m3	
	TWA	1780 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	545 mg/m3	
		125 ppm	
Mineral Spirits Regular Stoddard Solvent (CAS 8052-41-3)	TWA	435 mg/m3	
		100 ppm	
	STEL	720 mg/m3	
Silicic Acid, Calcium Salt (CAS 1344-95-2)	TWA	125 ppm	
		575 mg/m3	
		100 ppm	
	TWA	5 mg/m3	Respirable.

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

Components	Type	Value	Form
Toluene (CAS 108-88-3)	STEL	10 mg/m3 384 mg/m3 100 ppm	Inhalable
	TWA	192 mg/m3 50 ppm	
Xylene (CAS 1330-20-7)	STEL	650 mg/m3 150 ppm	
	TWA	435 mg/m3 100 ppm	
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Fume.
	TWA	5 mg/m3	Fume.

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

Components	Type	Value	Form
Acetone (CAS 67-64-1)	STEL	2420 mg/m3	
	TWA	1210 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
	TWA	442 mg/m3	
Toluene (CAS 108-88-3)	STEL	380 mg/m3	
	TWA	190 mg/m3	
Xylene (CAS 1330-20-7)	STEL	442 mg/m3	
	TWA	221 mg/m3	
Zinc oxide (CAS 1314-13-2)	STEL	20 mg/m3	Respirable.
	TWA	5 mg/m3	Respirable.

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

Components	Type	Value	Form
Acetone (CAS 67-64-1)	TWA	600 mg/m3 250 ppm	
	STEL	884 mg/m3	
Ethylbenzene (CAS 100-41-4)	TWA	200 ppm 200 mg/m3 50 ppm	
	TWA	145 mg/m3	
Mineral Spirits Regular Stoddard Solvent (CAS 8052-41-3)	TWA	25 ppm	
	STEL	188 mg/m3 50 ppm	
Toluene (CAS 108-88-3)	TWA	94 mg/m3 25 ppm	
	STEL	442 mg/m3 100 ppm	
Xylene (CAS 1330-20-7)	TWA	109 mg/m3 25 ppm	
	TWA	4 mg/m3	
Zinc oxide (CAS 1314-13-2)	TWA		Fume.

**Ireland. Occupational Exposure Limits**

Components	Type	Value	Form
Acetone (CAS 67-64-1)	TWA	1210 mg/m3 500 ppm	
	STEL	884 mg/m3	
Ethylbenzene (CAS 100-41-4)	TWA	200 ppm 442 mg/m3 100 ppm	
	TWA	573 mg/m3	
Mineral Spirits Regular Stoddard Solvent (CAS 8052-41-3)	TWA	100 ppm	
	TWA	4 mg/m3	
Silicic Acid, Calcium Salt (CAS 1344-95-2)	TWA		Respirable dust.

**Ireland. Occupational Exposure Limits Components**

Type	Value	Form
Toluene (CAS 108-88-3)	10 mg/m3 384 mg/m3 100 ppm	Total inhalable dust.
	TWA	192 mg/m3 50 ppm
Xylene (CAS 1330-20-7)	STEL	442 mg/m3 100 ppm
	TWA	221 mg/m3 50 ppm
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3
	TWA	2 mg/m3

**Italy. Occupational Exposure Limits Components**

Type	Value	Form
Acetone (CAS 67-64-1)	TWA	1210 mg/m3 500 ppm
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3
	TWA	200 ppm 442 mg/m3 100 ppm
Mineral Spirits Regular Stoddard Solvent (CAS 8052-41-3)	TWA	100 ppm
Silicic Acid, Calcium Salt (CAS 1344-95-2)	TWA	1 mg/m3
Toluene (CAS 108-88-3)	TWA	192 mg/m3 50 ppm
Xylene (CAS 1330-20-7)	STEL	442 mg/m3 100 ppm
	TWA	221 mg/m3 50 ppm
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3
	TWA	2 mg/m3

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

Type	Value	
Acetone (CAS 67-64-1)	TWA	1210 mg/m3 500 ppm
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3
	TWA	200 ppm 442 mg/m3 100 ppm
Silica, amorphous (CAS 7631-86-9)	TWA	1 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
Zinc oxide (CAS 1314-13-2)	TWA	0,5 mg/m3

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

Type	Value	
Acetone (CAS 67-64-1)	STEL	2420 mg/m3 1000 ppm
	TWA	1210 mg/m3 500 ppm

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

Components	Type	Value
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3
		200 ppm
Toluene (CAS 108-88-3)	TWA	442 mg/m3
		100 ppm
	STEL	384 mg/m3
Xylene (CAS 1330-20-7)	TWA	192 mg/m3
		50 ppm
	STEL	450 mg/m3
Zinc oxide (CAS 1314-13-2)	TWA	200 mg/m3
		50 ppm
Zinc oxide (CAS 1314-13-2)	TWA	5 mg/m3

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

Components	Type	Value
Acetone (CAS 67-64-1)	TWA	1210 mg/m3
		500 ppm
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3
		200 ppm
	TWA	442 mg/m3
Toluene (CAS 108-88-3)		100 ppm
	STEL	384 mg/m3
	TWA	192 mg/m3
Xylene (CAS 1330-20-7)		50 ppm
	STEL	442 mg/m3
	TWA	100 ppm
		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)**

Components	Type	Value
Acetone (CAS 67-64-1)	TWA	1210 mg/m3
		500 ppm
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3
		200 ppm
	TWA	442 mg/m3
Toluene (CAS 108-88-3)		100 ppm
	STEL	384 mg/m3
	TWA	192 mg/m3
Xylene (CAS 1330-20-7)		50 ppm
	STEL	442 mg/m3
	TWA	100 ppm
		221 mg/m3
		50 ppm

**Netherlands. OELs (binding)**

Components	Type	Value
Acetone (CAS 67-64-1)	STEL	2420 mg/m3
	TWA	1210 mg/m3
Ethylbenzene (CAS 100-41-4)	STEL	430 mg/m3
	TWA	215 mg/m3
Toluene (CAS 108-88-3)	STEL	384 mg/m3
	TWA	150 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
Acetone (CAS 67-64-1)	TLV	295 mg/m3 125 ppm
Ethylbenzene (CAS 100-41-4)	TLV	20 mg/m3 5 ppm
Toluene (CAS 108-88-3)	TLV	94 mg/m3 25 ppm
Xylene (CAS 1330-20-7)	TLV	108 mg/m3 25 ppm
Zinc oxide (CAS 1314-13-2)	TLV	5 mg/m3

**Poland. MACs. Regulation regarding maximum permissible concentrations and intensities of harmful factors in the work environment, Annex 1**

Components	Type	Value	Form
Acetone (CAS 67-64-1)	STEL	1800 mg/m3	
	TWA	600 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	400 mg/m3	
	TWA	200 mg/m3	
Toluene (CAS 108-88-3)	STEL	200 mg/m3	
	TWA	100 mg/m3	
Xylene (CAS 1330-20-7)	TWA	100 mg/m3	
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Inhalable fraction.
	TWA	5 mg/m3	Inhalable fraction.

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

Components	Type	Value
Acetone (CAS 67-64-1)	TWA	1210 mg/m3 500 ppm
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3 200 ppm
	TWA	442 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

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

Components	Type	Value	Form
Acetone (CAS 67-64-1)	STEL	750 ppm	
	TWA	500 ppm	
Ethylbenzene (CAS 100-41-4)	STEL	125 ppm	
	TWA	100 ppm	
Mineral Spirits Regular Stoddard Solvent (CAS 8052-41-3)	TWA	100 ppm	
Silicic Acid, Calcium Salt (CAS 1344-95-2)	TWA	10 mg/m3	
Toluene (CAS 108-88-3)	TWA	50 ppm	
Xylene (CAS 1330-20-7)	STEL	150 ppm	
	TWA	100 ppm	
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction.
	TWA	2 mg/m3	Respirable fraction.

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

Components	Type	Value	Form
Acetone (CAS 67-64-1)	TWA	1210 mg/m3 500 ppm	

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

Components	Type	Value	Form
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
	TWA	200 ppm 442 mg/m3	
Mineral Spirits Regular Stoddard Solvent (CAS 8052-41-3)	STEL	1000 mg/m3	
	TWA	700 mg/m3	
Toluene (CAS 108-88-3)	STEL	384 mg/m3	
	TWA	100 ppm 192 mg/m3	
Xylene (CAS 1330-20-7)	STEL	50 ppm 442 mg/m3	
	TWA	100 ppm 221 mg/m3	
Zinc oxide (CAS 1314-13-2)	STEL	50 ppm 10 mg/m3	Fume.
	TWA	5 mg/m3	Fume.

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

Components	Type	Value	Form
Acetone (CAS 67-64-1)	TWA	1210 mg/m3	
		500 ppm	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
	TWA	200 ppm 442 mg/m3	
Metallic Zinc (CAS 7440-66-6)	TWA	100 ppm 2 mg/m3	Inhalable fraction.
		0,1 mg/m3	Respirable fraction.
Mineral Spirits Regular Stoddard Solvent (CAS 8052-41-3)	STEL	600 mg/m3	
	TWA	100 ppm 300 mg/m3	
Toluene (CAS 108-88-3)	STEL	50 ppm 384 mg/m3	
	TWA	100 ppm 192 mg/m3	
Xylene (CAS 1330-20-7)	STEL	50 ppm 442 mg/m3	
	TWA	100 ppm 221 mg/m3	
Zinc oxide (CAS 1314-13-2)	STEL	50 ppm 1 mg/m3	Respirable fume.
	TWA	1 mg/m3	Respirable fume.

**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	Form
Acetone (CAS 67-64-1)	TWA	1210 mg/m3	
		500 ppm	
Ethylbenzene (CAS 100-41-4)	TWA	442 mg/m3	
		100 ppm	
Silica, amorphous (CAS 7631-86-9)	TWA	4 mg/m3	Inhalable fraction.
Toluene (CAS 108-88-3)	TWA	192 mg/m3	
		50 ppm	
Xylene (CAS 1330-20-7)	TWA	221 mg/m3	
		50 ppm	
Zinc oxide (CAS 1314-13-2)	TWA	5 mg/m3	Respirable fume.

**Spain. Occupational Exposure Limits Components**

Components	Type	Value	Form
Acetone (CAS 67-64-1)	TWA	1210 mg/m3 500 ppm	
	STEL	884 mg/m3	
Ethylbenzene (CAS 100-41-4)	TWA	200 ppm 441 mg/m3	
	STEL	100 ppm	
Silicic Acid, Calcium Salt (CAS 1344-95-2)	TWA	10 mg/m3	
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	
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction.
	TWA	2 mg/m3	Respirable fraction.

**Sweden. Occupational Exposure Limit Values Components**

Components	Type	Value	Form
Acetone (CAS 67-64-1)	STEL	1200 mg/m3 500 ppm	
	TWA	600 mg/m3 250 ppm	
Ethylbenzene (CAS 100-41-4)	Ceiling	884 mg/m3	
	TWA	200 ppm 220 mg/m3	
Toluene (CAS 108-88-3)	Ceiling	50 ppm 384 mg/m3	
	TWA	192 mg/m3 50 ppm	
Xylene (CAS 1330-20-7)	Ceiling	442 mg/m3 100 ppm	
	TWA	221 mg/m3 50 ppm	
Zinc oxide (CAS 1314-13-2)	TWA	5 mg/m3	Total dust.

**Switzerland. SUVA Grenzwerte am Arbeitsplatz Components**

Components	Type	Value	Form
Acetone (CAS 67-64-1)	STEL	2400 mg/m3 1000 ppm	
	TWA	1200 mg/m3 500 ppm	
Ethylbenzene (CAS 100-41-4)	STEL	220 mg/m3	
	TWA	50 ppm 220 mg/m3	
Silicic Acid, Calcium Salt (CAS 1344-95-2)	TWA	50 ppm 3 mg/m3	Respirable dust.
Toluene (CAS 108-88-3)	STEL	760 mg/m3 200 ppm	
	TWA	190 mg/m3 50 ppm	
Xylene (CAS 1330-20-7)	STEL	870 mg/m3 200 ppm	
	TWA	435 mg/m3 100 ppm	
Zinc oxide (CAS 1314-13-2)	STEL	3 mg/m3	Fume and respirable dust.

**Switzerland. SUVA Grenzwerte am Arbeitsplatz**

Components	Type	Value	Form
	TWA	3 mg/m3	Fume and respirable dust.

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

Components	Type	Value	Form
Acetone (CAS 67-64-1)	STEL	3620 mg/m3 1500 ppm	
	TWA	1210 mg/m3 500 ppm	
Ethylbenzene (CAS 100-41-4)	STEL	552 mg/m3	
	TWA	125 ppm 441 mg/m3	
Silicic Acid, Calcium Salt (CAS 1344-95-2)	TWA	100 ppm 4 mg/m3	Respirable dust.
Toluene (CAS 108-88-3)	STEL	10 mg/m3 384 mg/m3	Inhalable dust.
	TWA	100 ppm 191 mg/m3 50 ppm	
Xylene (CAS 1330-20-7)	STEL	441 mg/m3	
	TWA	100 ppm 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
Acetone (CAS 67-64-1)	TWA	1210 mg/m3 500 ppm
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3
	TWA	200 ppm 442 mg/m3 100 ppm
Toluene (CAS 108-88-3)	STEL	384 mg/m3
	TWA	100 ppm 192 mg/m3 50 ppm
Xylene (CAS 1330-20-7)	STEL	442 mg/m3
	TWA	100 ppm 221 mg/m3 50 ppm

**Biological limit values**
**Croatia. BLV. Dangerous Substance Exposure Limit Values at Workplace, Annexes 4 (as amended)**

Components	Value	Determinant	Specimen	Sampling time
Acetone (CAS 67-64-1)	20 mg/g	Acetone	Creatinine in urine	*
	20 mg/l	Acetone	Blood	*
	0,34 mmol/l	Acetone	Blood	*
	38,95 mmol/mol	Acetone	Creatinine in urine	*
Ethylbenzene (CAS 100-41-4)	1,5 g/g	Mandelic acid	Creatinine in urine	*
	1,5 mg/l	Ethylbenzene	Blood	*
	1,12 mol/mol	Mandelic acid	Creatinine in urine	*
	83,2 nmol/l	Ethylbenzene	End-exhaled air	*
	2 ppm	Ethylbenzene	End-exhaled air	*
	14,13 umol/l	Ethylbenzene	Blood	*
Toluene (CAS 108-88-3)	2,5 g/g	Hippuric acid	Creatinine in urine	*



**Croatia. BLV. Dangerous Substance Exposure Limit Values at Workplace, Annexes 4 (as amended)**

Components	Value	Determinant	Specimen	Sampling time
	1 mg/g	o-cresol (Phenol, 2-methyl-)	Creatinine in urine	*
	1 mg/l	Toluene	Blood	*
	1,05 mmol/mol	o-cresol (Phenol, 2-methyl-)	Creatinine in urine	*
	1,58 mol/mol	Hippuric acid	Creatinine in urine	*
	20 ppm		End-exhaled air	*
	10,85 umol/l	Toluene	Blood	*
	0,83 umol/l		End-exhaled air	*
Xylene (CAS 1330-20-7)	1,5 g/g	Methylhippuric acids	Creatinine in blood	*
	1,5 mg/l	Xylene	Blood	*
	0,88 mol/mol	Methylhippuric acids	Creatinine in blood	*
	14,13 umol/l	Xylene	Blood	*

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

**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
Ethylbenzene (CAS 100-41-4)	1100 µmol/mmol	Mandelic acid	Creatinine in urine	*
	1500 mg/g	Mandelic acid	Creatinine in 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**

Components	Value	Determinant	Specimen	Sampling time
Ethylbenzene (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
Acetone (CAS 67-64-1)	100 mg/l	Acétone	Urine	*
Ethylbenzene (CAS 100-41-4)	1500 mg/g	Acide mandélique	Creatinine in 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
Acetone (CAS 67-64-1)	80 mg/l	Aceton	Urine	*
Ethylbenzene (CAS 100-41-4)	300 mg/l	Mandelsäure plus Phenylglyoxylsäure	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
Ethylbenzene (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-cresol	Creatinine in urine	*
	1,05 µmol/mmol	o-cresol	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	*
Ethylbenzene (CAS 100-41-4)	8,03 mg/g	2-ethylphenol	Creatinine in urine	*
	12 mg/l	2-ethylphenol	Urine	*
Toluene (CAS 108-88-3)	600 µg/l	Toluene	Blood	*
	1600 mg/g	Hippuric acid	Creatinine in urine	*
	1,03 mg/g	o-cresol (Phenol, 2-methyl-)	Creatinine in urine	*
	2401 mg/l	Hippuric acid	Urine	*
	1,5 mg/l	o-cresol (Phenol, 2-methyl-)	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	*
Ethylbenzene (CAS 100-41-4)	700 mg/g	Suma del ácido mandélico y el ácido fenilglioxílico	Creatinine in urine	*
		Ácido hipúrico		
Toluene (CAS 108-88-3)	1,6 g/g	Ácido hipúrico	Creatinine in urine	*

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

Components	Value	Determinant	Specimen	Sampling time
	0,5 mg/l	o-cresol (Phenol, 2-methyl-)	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
Acetone (CAS 67-64-1)	80 mg/l	Aceton	Urine	*
Ethylbenzene (CAS 100-41-4)	800 mg/l	Mandelsäure plus Phenylglyoxyls äure	Urine	*
	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-Hippurs äure	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 levels (DNELs)** Not available.

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

**Exposure guidelines**

**EU Exposure Limit Values: Skin designation**

Ethylbenzene (CAS 100-41-4)	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.

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

Ethylbenzene (CAS 100-41-4)	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**

<b>General information</b>	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.
<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles).
<b>Skin protection</b>	
- <b>Hand protection</b>	Wear appropriate chemical resistant gloves.
- <b>Other</b>	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
<b>Respiratory protection</b>	Chemical respirator with organic vapour cartridge and full facepiece.

<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>Hygiene measures</b>	Observe any medical surveillance requirements. 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. Contaminated work clothing should not be allowed out of the workplace.
<b>Environmental exposure controls</b>	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>Colour</b>	Grey.
<b>Odour</b>	Aromatic. Hydrocarbon-like.
<b>Odour threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	< 23,0 °C (< 73,4 °F)
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Vapour pressure</b>	> 1 kPa @ 25°C
<b>Vapour density</b>	> 1 (Air = 1)
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Insoluble in water
<b>Solubility (other)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	3000 - 4500 cSt
<b>Explosive properties</b>	Not explosive.
<b>Oxidising properties</b>	Not oxidising.

### 9.2. Other information

<b>Density</b>	18,97 g/cm <sup>3</sup>
<b>Percent volatile</b>	25,7 %
<b>Specific gravity</b>	2,27 @ 25°C
<b>VOC</b>	335,5 g/l per U.S. State and Federal Architectural Coating Regulations.

## 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 oxidising agents. Halogens.
<b>10.6. Hazardous decomposition products</b>	Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.

## 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 damage to organs through prolonged or repeated exposure by inhalation.
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**Skin contact** Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction.  
**Eye contact** Causes serious eye irritation.  
**Ingestion** May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

**Symptoms** Narcosis. Behavioural changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing. Discomfort in the chest. Shortness of breath. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. Oedema.

### 11.1. Information on toxicological effects

**Acute toxicity** Harmful if inhaled. Harmful in contact with skin.

Components	Species	Test results
Acetone (CAS 67-64-1)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 20 ml/kg, 24 Hours
<b>Inhalation</b>		
<i>Vapour</i>		
LC50	Rat	50,1 mg/l, 4 Hours
<b>Oral</b>		
LD50	Rat	9,1 ml/kg
Ethylbenzene (CAS 100-41-4)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	17,8 ml/kg, 24 Hours
<b>Inhalation</b>		
<i>Vapour</i>		
LC50	Rat	4000 ppm, 4 Hours
<b>Oral</b>		
LD50	Rat	3500 mg/kg
Metallic Zinc (CAS 7440-66-6)		
<b>Acute</b>		
<b>Inhalation</b>		
<i>Dust</i>		
LC50	Rat	> 5410 mg/m <sup>3</sup> , 4 Hours
<b>Oral</b>		
LD50	Rat	630 mg/kg
Silica, amorphous (CAS 7631-86-9)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 2000 mg/kg, 24 Hours
<b>Inhalation</b>		
<i>Dust</i>		
LC50	Rat	> 0,14 mg/l, 4 Hours
<b>Oral</b>		
LD50	Rat	> 3300 mg/kg
Silicic Acid, Calcium Salt (CAS 1344-95-2)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 5000 mg/kg, 24 Hours
<b>Inhalation</b>		
<i>Dust</i>		
LC50	Rat	> 0,69 mg/l, 4 Hours
<b>Oral</b>		
LD50	Rat	> 5000 mg/kg

Components	Species	Test results
Toluene (CAS 108-88-3)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	14,1 ml/kg
<b>Inhalation</b>		
LC50	Rat	8000 ppm, 4 Hours
<b>Oral</b>		
LD50	Rat	2,6 g/kg
Xylene (CAS 1330-20-7)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 5000 ml/kg, 4 Hours
<b>Inhalation</b>		
<i>Vapour</i>		
LC50	Rat	6700 ppm, 4 Hours
<b>Oral</b>		
LD50	Rat	10 ml/kg
Zinc oxide (CAS 1314-13-2)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rat	> 2000 mg/kg, 24 Hours
<b>Inhalation</b>		
LC50	Rat	> 5700 mg/m3, 4 Hours
<b>Oral</b>		
LD50	Rat	> 5000 mg/kg
<b>Skin corrosion/irritation</b>	Causes skin irritation.	
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.	
<b>Respiratory sensitisation</b>	Not a respiratory sensitizer.	
<b>Skin sensitisation</b>	May cause an allergic skin reaction.	
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
<b>Carcinogenicity</b>	Suspected of causing cancer.	
<b>ACGIH Carcinogens</b>		
Acetone (CAS 67-64-1)	Not classifiable as a human carcinogen. A4	
Ethylbenzene (CAS 100-41-4)	Confirmed animal carcinogen with unknown relevance to humans. A3	
Silicic Acid, Calcium Salt (CAS 1344-95-2)	Not classifiable as a human carcinogen. A4	
Toluene (CAS 108-88-3)	Not classifiable as a human carcinogen. A4	
Xylene (CAS 1330-20-7)	Not classifiable as a human carcinogen. A4	
<b>Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)</b>		
Mineral Spirits Regular Stoddard Solvent (CAS 8052-41-3)		
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>		
Ethylbenzene (CAS 100-41-4)	2B Possibly carcinogenic to humans.	
Silica, amorphous (CAS 7631-86-9)	3 Not classifiable as to carcinogenicity 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>	Suspected of damaging fertility or the unborn child.	
<b>Specific target organ toxicity - single exposure</b>	Not classified.	
<b>Specific target organ toxicity - repeated exposure</b>	Causes damage to organs through prolonged or repeated exposure. May cause damage to organs (auditory organ, lung, kidney) through prolonged or repeated exposure.	
<b>Aspiration hazard</b>	Not an aspiration hazard.	
<b>Mixture versus substance information</b>	No information available.	
<b>Other information</b>	Symptoms may be delayed.	

## SECTION 12: Ecological information

**12.1. Toxicity** Very toxic to aquatic life with long lasting effects.

Components		Species	Test results
Acetone (CAS 67-64-1)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea (Daphnia magna)	10294 - 17704 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	4740 - 6330 mg/l, 96 hours
Ethylbenzene (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
Metallic Zinc (CAS 7440-66-6)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea (Daphnia magna)	2,8 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0,56 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
Zinc oxide (CAS 1314-13-2)			
<b>Aquatic</b>			
Fish	LC50	Fathead minnow (Pimephales promelas)	2246 mg/l, 96 hours

**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
Ethylbenzene	3,15
Mineral Spirits Regular Stoddard Solvent	3,16 - 7,15
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.

#### assessment

**12.6. Other adverse effects** None known.

### 12.7. Additional information

#### Estonia Dangerous substances in groundwater Data

Ethylbenzene (CAS 100-41-4)	Ethylbenzene 0,5 UG/L
	Ethylbenzene 50 UG/L
Toluene (CAS 108-88-3)	Toluene 0,5 UG/L
	Toluene 50 UG/L

#### Estonia Dangerous substances in soil Data

Ethylbenzene (CAS 100-41-4)	Ethylbenzene 0,1 mg/kg
	Ethylbenzene 5 mg/kg
	Ethylbenzene 50 mg/kg
Toluene (CAS 108-88-3)	Toluene 0,1 mg/kg
	Toluene 100 mg/kg
	Toluene 3 mg/kg

## 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 including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler, and liquid lacquer base
<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>	Not available.
<b>Tunnel restriction code</b>	Not available.
<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 including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler, and liquid lacquer base
<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 including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler, and liquid lacquer base
<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 including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler, and liquid lacquer base
<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



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

**Other information**

**Passenger and cargo aircraft** Allowed with restrictions.

**Cargo aircraft only** Allowed with restrictions.

**IMDG**

**14.1. UN number** UN1263

**14.2. UN proper shipping name** Paint including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler, and liquid lacquer base (Metallic Zinc), MARINE POLLUTANT

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

**Class** 3

**Subsidiary risk** -

**Label(s)** 3

**14.4. Packing group** II

**14.5. Environmental hazards**

**Marine pollutant** Yes

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

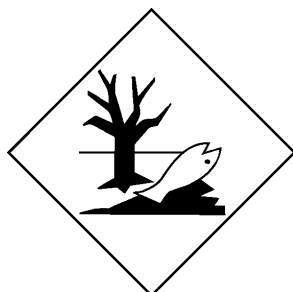
**14.6. Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

**14.7. Transport in bulk according to Annex II of Marpol 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 and II, as amended**  
Not listed.

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

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**  
Not listed.

**Regulation (EU) No. 649/2012 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.

#### **Authorisations**

**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**

Acetone (CAS 67-64-1)

Toluene (CAS 108-88-3)

Mineral Spirits Regular Stoddard Solvent (CAS 8052-41-3)

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

Mineral Spirits Regular Stoddard Solvent (CAS 8052-41-3)

#### **Other EU regulations**

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

Acetone (CAS 67-64-1)

Ethylbenzene (CAS 100-41-4)

Toluene (CAS 108-88-3)

Xylene (CAS 1330-20-7)

Zinc oxide (CAS 1314-13-2)

#### **Other regulations**

Pregnant women should not work with the product, if there is the least risk of exposure. The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

#### **National regulations**

Follow national regulation for work with chemical agents. 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, as amended.

#### **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.

R15 Contact with water liberates extremely flammable gases.

R17 Spontaneously flammable in air.

R20 Harmful by inhalation.

R20/21 Harmful by inhalation and in contact with skin.

R23 Toxic by inhalation.

R26 Very toxic by inhalation.

R36 Irritating to eyes.

R36/38 Irritating to eyes and skin.

R38 Irritating to skin.

R43 May cause sensitisation by skin contact.

R45 May cause cancer.

R48 Danger of serious damage to health by prolonged exposure.

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R60 May impair fertility.

R61 May cause harm to the unborn child.

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 Vapours may cause drowsiness and dizziness.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.  
H250 Catches fire spontaneously if exposed to air.  
H304 May be fatal if swallowed and enters airways.  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H330 Fatal if inhaled.  
H331 Toxic if inhaled.  
H332 Harmful if inhaled.  
H336 May cause drowsiness or dizziness.  
H351 Suspected of causing cancer.  
H372 Causes damage to organs through prolonged or repeated exposure.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H410 Very toxic to aquatic life with long lasting effects.  
H411 Toxic to aquatic life with long lasting effects.

**Revision information**

**Training information**

**Disclaimer**

This document has undergone significant changes and should be reviewed in its entirety.

Follow training instructions when handling this material.

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