

## 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	TR 502 Wax Build Up Remover
Registration number	-
Synonyms	None.
Issue date	11-March-2020
Version number	01
Revision date	-
Supersedes date	-
1.2. Relevant identified uses of	the substance or mixture and uses advised against
Identified uses	Wax remover.
Uses advised against	None known.
1.3. Details of the supplier of the	ne safety data sheet
Company name	TR Industries a Division of Granitize Products Inc.
Address	11022 Vulcan Street
	South Gate, CA 90280-0893
	United States
Telephone	(562) 923-5438
Emergency telephone	CHEMTREC: (800) 424-9300
	CHEMTREC International: 00 1-703-527-3887

## **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 Regulation (EC) No 1272/2008 as amended

Physical hazards		
Flammable liquids	Category 3	H226 - Flammable liquid and vapour.
Health hazards		
Skin corrosion/irritation	Category 2	H315 - Causes skin irritation.
Serious eye damage/eye irritation	Category 2	H319 - Causes serious eye irritation.
Specific target organ toxicity - single exposure	Category 3 narcotic effects	H336 - May cause drowsiness or dizziness.
Specific target organ toxicity - repeated exposure	Category 1 (central nervous system)	H372 - Causes damage to organs (central nervous system) through prolonged or repeated exposure.
Aspiration hazard	Category 1	H304 - May be fatal if swallowed and enters airways.
Environmental hazards		
Hazardous to the aquatic environment, long-term aquatic hazard	Category 2	H411 - Toxic to aquatic life with long lasting effects.

Hazard summary May be ignited by heat, sparks or flames. Causes skin irritation. Causes serious eye irritation. May cause drowsiness and dizziness. Causes damage to organs through prolonged or repeated exposure. Prolonged exposure may cause chronic effects. May be fatal if swallowed and enters airways. Dangerous for the environment if discharged into watercourses. Occupational exposure to the substance or mixture may cause adverse health effects.

#### 2.2. Label elements

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

Contains:

Hazard pictograms



Signal word	Danger
Hazard statements	
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H372	Causes damage to organs (central nervous system) through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
Precautionary statements	
Prevention	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe mist/vapours.
P273	Avoid release to the environment.
Response	
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTRE/doctor/.
P331	Do NOT induce vomiting.
P391	Collect spillage.
Storage	
P403 + P235	Store in a well-ventilated place. Keep cool.
Disposal	Not assigned.
Supplemental label information	None.
2.3. Other hazards	Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapour. May cause flash fire or explosion.

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.

## **SECTION 3: Composition/information on ingredients**

### 3.2. Mixtures

## **General information**

Chemical name		%	CAS-No.	/ EC No.	<b>REACH Registration No</b>	o. Index No.	Notes
Solvent Naphta (petroleu Aromatic	m), Light 20	) - 25	64742 265-1	-95-6 99-0	-	649-356-00-4	
Classification:	Flam. Liq. 1;H22 Chronic 2;H411	4, Asp.	Tox. 1;H30	04, Skin Ir	rit. 2;H315, STOT SE 3;H	336, Aquatic	
1,2,4-Trimethyl benzene	5	- 10	95-6 202-4	3-6 36-9	-	601-043-00-3	#
Classification:	Flam. Liq. 3;H22 4;H332, STOT S	6, Asp. E 3;H33	Tox. 1;H30 35, Aquatio	04, Skin Ir Chronic	rit. 2;H315, Eye Irrit. 2;H3 2;H411	19, Acute Tox.	
Mineral spirits	5	- 10	64742 265-1	-88-7 91-7	01-2119537181-47	649-405-00-X	
Classification:	Flam. Liq. 3;H22 1;H372, Aquatic	6, Asp. Chronic	Tox. 1;H30 ; 2;H411	04, Skin Ir	rit. 2;H315, STOT SE 3;H	336, STOT RE	
1,3,5-Trimethylbenzene		- 5	108-6 203-6	67-8 04-4	-	601-025-00-5	#
Classification:	Flam. Liq. 3;H22 3;H335, Aquatic	6, Asp. Chronic	Tox. 1;H30 ; 2;H411	04, Skin Ir	rit. 2;H315, Eye Irrit. 2;H3	19, STOT SE	
Isopropyl alcohol		- 5	67-6 200-6	3-0 61-7	-	603-117-00-0	
Classification:	Flam. Liq. 2;H22	5, Eye I	rrit. 2;H319	9, STOT S	SE 3;H336		
Diethylbenzene		- 2	25340 246-8	-17-4 74-9	-	-	
Classification:	Flam. Liq. 3;H22 Chronic 1;H410	6, Asp. <sup>-</sup>	Tox. 1;H30	04, Skin Ir	rit. 2;H315, Aquatic Acute	1;H400, Aquatic	

Chemical name	%	CAS-No. / EC No.	<b>REACH Registration No.</b>	Index No.	Notes
Morpholine	1 - 2	110-91-8 203-815-1	-	613-028-00-9	#
Classification:	Flam. Liq. 3;H226, Acu Tox. 4;H332	te Tox. 4;H302, Acute	e Tox. 4;H312, Skin Corr. 1E	3;H314, Acute	
Oleic acid	1 - 2	112-80-1 204-007-1	-	-	
Classification:	-				
Cumene	0,1 - < 1	98-82-8 202-704-5	-	601-024-00-X	#
Classification:	Flam. Liq. 3;H226, Asp	. Tox. 1;H304, STOT	SE 3;H335, Aquatic Chronie	c 2;H411	С
Xylene	0,1 - 1	1330-20-7 215-535-7	-	601-022-00-9	#
Classification:	Flam. Liq. 3;H226, Asp 2;H319, Acute Tox. 4;H	. Tox. 1;H304, Acute I332, STOT SE 3;H3	Tox. 4;H312, Skin Irrit. 2;H3 35, STOT SE 3;H336, STOT	15, Eye Irrit. RE 2;H373	С

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

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

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.

Composition comments	The full text for all H-statements is displayed in section 16. All concentrations are in percent by weight unless otherwise indicated. Components not listed are either non-hazardous or are below reportable limits.
	entier non-nazardous of are below reportable innits.

### **SECTION 4: First aid measures**

General information	Take off all contaminated clothing immediately. 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. Wash contaminated clothing before reuse.
4.1. Description of first aid meas	ures
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison centre or doctor/physician if you feel unwell.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. 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	Call a physician or poison control centre immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
4.2. Most important symptoms and effects, both acute and delayed	Aspiration may cause pulmonary oedema and pneumonitis. May cause drowsiness and dizziness. Narcosis. Headache. Nausea, vomiting. Behavioural changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. 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 under observation. Symptoms may be delayed.
SECTION 5: Firefighting m	easures
General fire hazards	Flammable liquid and vapour.
5.1. Extinguishing media	
Suitable extinguishing media	Water fog. Alcohol resistant foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
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. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. 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. Cool containers exposed to flames with water until well after the fire is out.
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 breathing mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained.
For emergency responders	Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up.
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. Use appropriate containment to avoid environmental contamination.
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. 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. 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	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. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. 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/vapours. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.
	For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".

7.2. Conditions for safe storage, including any incompatibilities
 7.3. Specific end use(s)
 Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see section 10 of the SDS).

### **SECTION 8: Exposure controls/personal protection**

8.1. Control parameters

#### **Occupational exposure limits**

### Austria. MAK List

Components	Туре	Value	Form
1,2,4-Trimethyl benzene (CAS 95-63-6)	MAK	100 mg/m3	
,		20 ppm	
	STEL	150 mg/m3	
		30 ppm	
,3,5-Trimethylbenzene CAS 108-67-8)	МАК	100 mg/m3	
		20 ppm	
	STEL	150 mg/m3	
		30 ppm	
morphous Silica: Incalcinated Diatomaceous arth (CAS 61790-53-2)	MAK	4 mg/m3	Inhalable fraction.
cumene (CAS 98-82-8)	MAK	100 mg/m3	
		20 ppm	
	STEL	250 mg/m3	
		50 ppm	
sopropyl alcohol (CAS 7-63-0)	MAK	500 mg/m3	
~,		200 ppm	
	STEL	2000 mg/m3	
		800 ppm	
lorpholine (CAS 110-91-8)	MAK	36 mg/m3	
		10 ppm	
	STEL	36 mg/m3	
		10 ppm	
ylene (CAS 1330-20-7)	MAK	221 mg/m3	
		50 ppm	
	STEL	442 mg/m3	
<u>.</u>		100 ppm	
elgium. Exposure Limit Values components	Туре	Value	Form
,2,4-Trimethyl benzene CAS 95-63-6)	TWA	100 mg/m3	
		20 ppm	
,3,5-Trimethylbenzene CAS 108-67-8)	TWA	100 mg/m3	
		20 ppm	
Incalcinated Diatomaceous Earth (CAS 61790-53-2)	IWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
Cumene (CAS 98-82-8)	STEL	250 mg/m3	
		50 ppm	
	TWA	100 mg/m3	
		20 ppm	
opropyl alcohol (CAS 7-63-0)	STEL	1000 mg/m3	
		400 ppm	
	TWA	500 mg/m3	
		200 ppm	

## Belgium. Exposure Limit Values

Components	Туре	Value	Form
Mineral spirits (CAS 64742-88-7)	TWA	200 mg/m3	Vapour.
Morpholine (CAS 110-91-8)	STEL	72 mg/m3	
		20 ppm	
	TWA	36 mg/m3	
		10 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 Components Type Value Form

oomponents	Type	Value	
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m3	
		20 ppm	
1,3,5-Trimethylbenzene (CAS 108-67-8)	TWA	100 mg/m3	
		20 ppm	
Amorphous Silica: Uncalcinated Diatomaceous Earth (CAS 61790-53-2)	TWA	10 mg/m3	Inhalable fraction.
		0,07 mg/m3	Respirable fraction.
Cumene (CAS 98-82-8)	STEL	250 mg/m3	
		50 ppm	
	TWA	100 mg/m3	
		20 ppm	
Diethylbenzene (CAS 25340-17-4)	TWA	10 mg/m3	
Isopropyl alcohol (CAS 67-63-0)	STEL	1225 mg/m3	
	TWA	980 mg/m3	
Mineral spirits (CAS 64742-88-7)	TWA	300 mg/m3	
Morpholine (CAS 110-91-8)	STEL	72 mg/m3	
		20 ppm	
	TWA	36 mg/m3	
		10 ppm	
Oleic acid (CAS 112-80-1)	TWA	10 mg/m3	
Xylene (CAS 1330-20-7)	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 Components Type Value Form

Componente	1960	Talao	
1,2,4-Trimethyl benzene (CAS 95-63-6)	MAC	100 mg/m3	
		20 ppm	
1,3,5-Trimethylbenzene (CAS 108-67-8)	MAC	100 mg/m3	
		20 ppm	
Amorphous Silica: Uncalcinated Diatomaceous Earth (CAS 61790-53-2)	MAC	6 mg/m3	Total dust.
		0,1 mg/m3	Respirable dust.

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

Components	Туре	Value Fo	orm
Cumene (CAS 98-82-8)	MAC	100 mg/m3	
		20 ppm	
	STEL	250 mg/m3	
		50 ppm	
Isopropyl alcohol (CAS 67-63-0)	MAC	999 mg/m3	
		400 ppm	
	STEL	1250 mg/m3	
		500 ppm	
Morpholine (CAS 110-91-8)	MAC	36 mg/m3	
		10 ppm	
	STEL	72 mg/m3	
		20 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	Гуре	Value	
Amorphous Silica: Uncalcinated Diatomaceous Earth (CAS 61790-53-2)	TWA	2 mg/m3	
Cumene (CAS 98-82-8)	TWA	245 mg/m3	
		50 ppm	
Isopropyl alcohol (CAS 67-63-0)	TWA	980 mg/m3	
		400 ppm	

## Czech Republic. OELs. Government Decree 361

Components	Туре	Value	Form
1,2,4-Trimethyl benzene (CAS 95-63-6)	Ceiling	250 mg/m3	
	TWA	100 mg/m3	
1,3,5-Trimethylbenzene (CAS 108-67-8)	Ceiling	250 mg/m3	
	TWA	100 mg/m3	
Amorphous Silica: Uncalcinated Diatomaceous Earth (CAS 61790-53-2)	TWA	4 mg/m3	Dust.
Cumene (CAS 98-82-8)	Ceiling	250 mg/m3	
	TWA	100 mg/m3	
Isopropyl alcohol (CAS 67-63-0)	Ceiling	1000 mg/m3	
	TWA	500 mg/m3	
Morpholine (CAS 110-91-8)	Ceiling	70 mg/m3	
	TWA	35 mg/m3	
Xylene (CAS 1330-20-7)	Ceiling	400 mg/m3	
	TWA	200 mg/m3	
Denmark. Exposure Limit Values			
Components	Туре	Value	
1,2,4-Trimethyl benzene (CAS 95-63-6)	TLV	100 mg/m3	
		20 ppm	

## Denmark. Exposure Limit Values

Components	Туре	Value	
1,3,5-Trimethylbenzene (CAS 108-67-8)	TLV	100 mg/m3	
		20 ppm	
Cumene (CAS 98-82-8)	TLV	100 mg/m3	
		20 ppm	
Isopropyl alcohol (CAS 67-63-0)	TLV	490 mg/m3	
		200 ppm	
Morpholine (CAS 110-91-8)	TLV	36 mg/m3	
		10 ppm	
Xylene (CAS 1330-20-7)	TLV	109 mg/m3	
		25 ppm	

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

Components	Туре	Value	Form
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m3	
		20 ppm	
Amorphous Silica: Uncalcinated Diatomaceous Earth (CAS 61790-53-2)	TWA	2 mg/m3	Fine dust, respiratory fraction
Cumene (CAS 98-82-8)	STEL	250 mg/m3	
		50 ppm	
	TWA	100 mg/m3	
		20 ppm	
Isopropyl alcohol (CAS 67-63-0)	STEL	600 mg/m3	
		250 ppm	
	TWA	350 mg/m3	
		150 ppm	
Mineral spirits (CAS 64742-88-7)	TWA	1 mg/m3	Vapour.
Morpholine (CAS 110-91-8)	STEL	72 mg/m3	
		20 ppm	
	TWA	36 mg/m3	
		10 ppm	
Xylene (CAS 1330-20-7)	STEL	450 mg/m3	
		100 ppm	
	TWA	200 mg/m3	
		50 ppm	
Finland. Workplace Exposure Limits			
Components	Туре	Value	
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m3	
		20 ppm	
1,3,5-Trimethylbenzene (CAS 108-67-8)	TWA	100 mg/m3	
		20 ppm	
Amorphous Silica: Uncalcinated Diatomaceous Earth (CAS 61790-53-2)	TWA	5 mg/m3	
Cumene (CAS 98-82-8)	STEL	250 mg/m3	
		50 ppm	

## Finland. Workplace Exposure Limits

Components	Туре	Value	
	TWA	100 mg/m3	
		20 ppm	
Isopropyl alcohol (CAS 67-63-0)	STEL	620 mg/m3	
		250 ppm	
	TWA	500 mg/m3	
		200 ppm	
Morpholine (CAS 110-91-8)	STEL	72 mg/m3	
		20 ppm	
	TWA	36 mg/m3	
		10 ppm	
Solvent Naphta (petroleum), Light Aromatic (CAS 64742-95-6)	TWA	100 mg/m3	
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 Value

components	туре	value
1,2,4-Trimethyl benzene (CAS 95-63-6)	VLE	250 mg/m3
Regulatory status:	Regulatory binding (VRC)	
		50 ppm
Regulatory status:	Regulatory binding (VRC)	
	VME	100 mg/m3
Regulatory status:	Regulatory binding (VRC)	Ŭ
nogulatory otataor		20 ppm
Regulatory status:	Regulatory binding (VRC)	
1.2.5 Trimethylbonzono		$250 \text{ mg/m}^2$
(CAS 108-67-8)	VLE	250 mg/ms
Regulatory status:	Regulatory binding (VRC)	
		50 ppm
Regulatory status:	Regulatory binding (VRC)	
	VME	100 mg/m3
Regulatory status:	Regulatory binding (VRC)	
0,	5, 5, 5, ,	20 ppm
Regulatory status:	Regulatory binding (VRC)	
Cumene (CAS 98-82-8)	VI F	250 mg/m3
Regulatory status:	Regulatory binding (VRC)	
Regulatory Status.		50 ppm
Degulatory status	Populaton ( hinding ()/PC)	50 ppm
Regulatory status:		100 mg/m2
	VME	100 mg/m3
Regulatory status:	Regulatory binding (VRC)	
		20 ppm
Regulatory status:	Regulatory binding (VRC)	
Isopropyl alcohol (CAS 67-63-0)	VLE	980 mg/m3
Regulatory status:	Indicative limit (VL)	
		400 ppm
Regulatory status:	Indicative limit (VI.)	···· FF
Mornholine (CAS 110-01-	8) // F	72 mg/m3
Bogulatory atotics		72 mg/mo
Regulatory status:		

Components	Туре	Value	
		20 ppm	
Regulatory status:	Regulatory binding (VRC)		
	VME	36 mg/m3	
Regulatory status:	Regulatory binding (VRC)		
		10 ppm	
Regulatory status:	Regulatory binding (VRC)		
Xylene (CAS 1330-20-7)	VLE	442 mg/m3	
Regulatory status:	Regulatory binding (VRC)		
		100 ppm	
Regulatory status:	Regulatory binding (VRC)		
	VME	221 mg/m3	
Regulatory status:	Regulatory binding (VRC)		
		50 ppm	
Regulatory status:	Regulatory binding (VRC)		

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

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

Components	Туре	Value	Form
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m3	
		20 ppm	
1,3,5-Trimethylbenzene (CAS 108-67-8)	TWA	100 mg/m3	
		20 ppm	
Amorphous Silica: Uncalcinated Diatomaceous Earth (CAS 61790-53-2)	TWA	4 mg/m3	Inhalable fraction.
Cumene (CAS 98-82-8)	TWA	50 mg/m3	
		10 ppm	
Diethylbenzene (CAS 25340-17-4)	TWA	28 mg/m3	
		5 ppm	
Isopropyl alcohol (CAS 67-63-0)	TWA	500 mg/m3	
		200 ppm	
Morpholine (CAS 110-91-8)	TWA	36 mg/m3	
		10 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	Туре	Value	Form
1,2,4-Trimethyl benzene (CAS 95-63-6)	AGW	100 mg/m3	
		20 ppm	
1,3,5-Trimethylbenzene (CAS 108-67-8)	AGW	100 mg/m3	
		20 ppm	
Amorphous Silica: Uncalcinated Diatomaceous Earth (CAS 61790-53-2)	AGW	4 mg/m3	Inhalable fraction.
Cumene (CAS 98-82-8)	AGW	50 mg/m3	
		10 ppm	
Isopropyl alcohol (CAS 67-63-0)	AGW	500 mg/m3	
		200 ppm	

Components	Туре	Value Form	
Morpholine (CAS 110-91-8)	AGW	36 mg/m3	
		10 ppm	
Xylene (CAS 1330-20-7)	AGW	200 mg/m3	
Greece. OELs (Decree No. 90/1999	), as amended)		
Components	Туре	Value	
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	125 mg/m3	
		25 ppm	
1,3,5-Trimethylbenzene (CAS 108-67-8)	TWA	125 mg/m3	
		25 ppm	
Cumene (CAS 98-82-8)	STEL	370 mg/m3	
		75 ppm	
	TWA	245 mg/m3	
		50 ppm	
Isopropyl alcohol (CAS 67-63-0)	STEL	1225 mg/m3	
		500 ppm	
	TWA	980 mg/m3	
		400 ppm	
Morpholine (CAS 110-91-8)	STEL	72 mg/m3	
		20 ppm	
	TWA	36 mg/m3	
		10 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	Туре	Value	
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m3	
1,3,5-Trimethylbenzene (CAS 108-67-8)	TWA	100 mg/m3	
Cumene (CAS 98-82-8)	STEL	250 mg/m3	
	TWA	100 mg/m3	
Isopropyl alcohol (CAS 67-63-0)	STEL	2000 mg/m3	
	TWA	500 mg/m3	
Morpholine (CAS 110-91-8)	STEL	72 mg/m3	
	TWA	36 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	Туре	Value Form	
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m3	
		20 ppm	
1,3,5-Trimethylbenzene (CAS 108-67-8)	TWA	100 mg/m3	
		20 ppm	

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

Components	Туре	Value	Form
Amorphous Silica: Uncalcinated Diatomaceous Earth (CAS 61790-53-2)	TWA	1,5 mg/m3	Respirable dust.
Cumene (CAS 98-82-8)	STEL	250 mg/m3	
		50 ppm	
	TWA	100 mg/m3	
		20 ppm	
Isopropyl alcohol (CAS 67-63-0)	TWA	490 mg/m3	
		200 ppm	
Morpholine (CAS 110-91-8)	STEL	72 mg/m3	
		20 ppm	
	TWA	36 mg/m3	
		10 ppm	
Xylene (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	109 mg/m3	
		25 ppm	

Ireland. C	Occupational	Exposure	Limits

Components	Туре	Value	Form
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m3	
		20 ppm	
1,3,5-Trimethylbenzene (CAS 108-67-8)	TWA	100 mg/m3	
		20 ppm	
Amorphous Silica: Uncalcinated Diatomaceous Earth (CAS 61790-53-2)	TWA	6 mg/m3	Total inhalable dust.
		2,4 mg/m3	Respirable dust.
Cumene (CAS 98-82-8)	STEL	250 mg/m3	
		50 ppm	
	TWA	100 mg/m3	
		20 ppm	
Isopropyl alcohol (CAS 67-63-0)	STEL	400 ppm	
	TWA	200 ppm	
Morpholine (CAS 110-91-8)	STEL	72 mg/m3	
		20 ppm	
	TWA	36 mg/m3	
		10 ppm	
Xylene (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
Italy. OELs			
Components	Туре	Value	Form
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m3	
		20 ppm	
1,3,5-Trimethylbenzene (CAS 108-67-8)	TWA	100 mg/m3	
		20 ppm	

Italy. OELs			
Components	Туре	Value	Form
Cumene (CAS 98-82-8)	STEL	250 mg/m3	
		50 ppm	
	TWA	100 mg/m3	
		20 ppm	
Isopropyl alcohol (CAS 67-63-0)	STEL	400 ppm	
	TWA	200 ppm	
Mineral spirits (CAS 64742-88-7)	TWA	200 mg/m3	Non-aerosol.
Morpholine (CAS 110-91-8)	STEL	72 mg/m3	
		20 ppm	
	TWA	36 mg/m3	
		10 ppm	
Xylene (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	

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

Components	Гуре	Value	
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m3	
		20 ppm	
1,3,5-Trimethylbenzene (CAS 108-67-8)	TWA	100 mg/m3	
		20 ppm	
Amorphous Silica: Uncalcinated Diatomaceous Earth (CAS 61790-53-2)	TWA	1 mg/m3	
Cumene (CAS 98-82-8)	STEL	250 mg/m3	
		50 ppm	
	TWA	100 mg/m3	
		20 ppm	
Isopropyl alcohol (CAS 67-63-0)	STEL	600 mg/m3	
	TWA	350 mg/m3	
Mineral spirits (CAS 64742-88-7)	TWA	10 mg/m3	
Morpholine (CAS 110-91-8)	STEL	72 mg/m3	
		20 ppm	
	TWA	36 mg/m3	
		10 ppm	
Xylene (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	

#### Lithuania. OELs. Limit Values for Chemical Substances, General Requirements (Hygiene Norm HN 23:2007) Components Value

Componente	1,960	Valuo	
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m3	
		20 ppm	
1,3,5-Trimethylbenzene (CAS 108-67-8)	STEL	150 mg/m3	
		30 ppm	

Components	Туре	Value	
	TWA	100 mg/m3	
		20 ppm	
Cumene (CAS 98-82-8)	STEL	170 mg/m3	
		35 ppm	
	TWA	100 mg/m3	
		20 ppm	
Diethylbenzene (CAS 25340-17-4)	TWA	10 mg/m3	
Isopropyl alcohol (CAS 67-63-0)	STEL	600 mg/m3	
		250 ppm	
	TWA	350 mg/m3	
		150 ppm	
Morpholine (CAS 110-91-8)	STEL	72 mg/m3	
		20 ppm	
	TWA	36 mg/m3	
		10 ppm	
Solvent Naphta (petroleum), Light Aromatic (CAS 64742-95-6)	STEL	600 mg/m3	
		100 ppm	
	TWA	300 mg/m3	
		50 ppm	
Xylene (CAS 1330-20-7)	STEL	450 mg/m3	
		100 ppm	
	TWA	200 mg/m3	
		50 ppm	
Luxembourg Binding Occupation	al exposure limit values (Anr	ex I) Memorial A	

## Lithuania. OELs. Limit Values for Chemical Substances, General Requirements (Hygiene Norm HN 23:2007)

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

Components	Гуре	value	
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m3	
		20 ppm	
1,3,5-Trimethylbenzene (CAS 108-67-8)	TWA	100 mg/m3	
		20 ppm	
Cumene (CAS 98-82-8)	STEL	250 mg/m3	
		50 ppm	
	TWA	100 mg/m3	
		20 ppm	
Morpholine (CAS 110-91-8)	STEL	72 mg/m3	
		20 ppm	
	TWA	36 mg/m3	
		10 ppm	
Xylene (CAS 1330-20-7)	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) Components Type Value

components	Туре	value	
1,2,4-Trimethyl benzene	TWA	100 mg/m3	
(CAS 95-63-6)			

Components	Туре	Value	
		20 ppm	
1,3,5-Trimethylbenzene (CAS 108-67-8)	TWA	100 mg/m3	
		20 ppm	
Cumene (CAS 98-82-8)	STEL	250 mg/m3	
		50 ppm	
	TWA	100 mg/m3	
		20 ppm	
Morpholine (CAS 110-91-8)	STEL	72 mg/m3	
		20 ppm	
	TWA	36 mg/m3	
		10 ppm	
Xylene (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 ma/m3	
		50 ppm	
Netherlands, OELs (binding)			
Components	Туре	Value	
1,2,4-Trimethyl benzene (CAS 95-63-6)	STEL	200 mg/m3	
· · · ·	TWA	100 mg/m3	
1,3,5-Trimethylbenzene (CAS 108-67-8)	STEL	200 mg/m3	
	TWA	100 mg/m3	
Cumene (CAS 98-82-8)	STEL	250 mg/m3	
	TWA	100 mg/m3	
Morpholine (CAS 110-91-8)	STEL	72 mg/m3	
	TWA	36 mg/m3	
Xylene (CAS 1330-20-7)	STEL	442 mg/m3	
	TWA	210 mg/m3	
Norway. Administrative Norms for Co Components	ntaminants in the Workplace Type	Value	Form
1.2.4 Trimethyl honzono		100 mg/m3	
(CAS 95-63-6)	ILV		
	<b>T</b> 1 \ /	20 ppm	
(CAS 108-67-8)	ILV	100 mg/m3	
		20 ppm	
Amorphous Silica: Uncalcinated Diatomaceous Earth (CAS 61790-53-2)	TLV	1,5 mg/m3	Respirable dust.
Cumene (CAS 98-82-8)	STEL	250 mg/m3	
		50 ppm	
	TLV	100 mg/m3	
		20 ppm	
Isopropyl alcohol (CAS 67-63-0)	TLV	245 mg/m3	
/		100 ppm	
Morpholine (CAS 110-91-8)	TLV	36 mg/m3	
· · · · · ·		- 10 ppm	
Xylene (CAS 1330-20-7)	TLV	108 mg/m3	
-		-	

Components	Туре	Value	Form
		25 ppm	
Ordinance of the Minister of Labour a	nd Social Policy on 6 June	e 2014 on the maximum permis	sible concentrations and
intensities of harmful health factors in	n the work environment, Jo	ournal of Laws 2014, item 817	<b>F</b>
Components	Туре	Value	Form
1,2,4-Trimethyl benzene	STEL	170 mg/m3	
	TWA	100 mg/m3	
1,3,5-Trimethylbenzene	STEL	170 mg/m3	
(CAS 108-67-8)		-	
	TWA	100 mg/m3	
Amorphous Silica: Uncalcinated Diatomaceous Earth (CAS 61790-53-2)	TWA	2 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
Cumene (CAS 98-82-8)	STEL	250 mg/m3	
	TWA	50 mg/m3	
Diethylbenzene (CAS	STEL	400 mg/m3	
25340-17-4)	<b>Τ</b> \Λ/Λ	100 ma/m3	
Isopropyl alcohol (CAS		100 mg/m3	
67-63-0)	SILL	1200 mg/m3	
	TWA	900 mg/m3	
Mineral spirits (CAS 64742-88-7)	STEL	300 mg/m3	
	TWA	100 mg/m3	
Morpholine (CAS 110-91-8)	STEL	72 mg/m3	
	TWA	36 mg/m3	
Xylene (CAS 1330-20-7)	TWA	100 mg/m3	
Portugal. OELs. Decree-Law n. 290/20	01 (Journal of the Republi	c - 1 Series A, n.266)	
Components	Туре	Value	
1,2,4-Trimethyl benzene	TWA	100 mg/m3	
(CAS 95-63-6)		20 nnm	
1 3 5-Trimethylbenzene	τιλια	20 ppm	
(CAS 108-67-8)	1007	roo mg/mo	
		20 ppm	
Cumene (CAS 98-82-8)	STEL	250 mg/m3	
		50 ppm	
	TWA	100 mg/m3	
		20 ppm	
Morpholine (CAS 110-91-8)	STEL	72 mg/m3	
		20 ppm	
	TWA	36 mg/m3	
		10 ppm	
Xylene (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
Portugal. VLEs. Norm on occupationa Components	Il exposure to chemical ag	ents (NP 1796) Value	Form
		Value	
Currene (CAS 98-82-8)		50 ppm	
67-63-0)	SIEL	400 ppm	

Norway. Administrative Norms for Contaminants in the Workplace

Portugal. VLEs. Norm on occupat Components	ional exposure to chemical a Type	igents (NP 1796) Value	Form	
	TWA	200 ppm		
Mineral spirits (CAS 64742-88-7)	TWA	200 mg/m3	Non-aerosol.	
Morpholine (CAS 110-91-8)	TWA	20 ppm		
Xylene (CAS 1330-20-7)	STEL	150 ppm		
	TWA	100 ppm		
Romania. OELs. Protection of wo	rkers from exposure to chem	ical agents at the workplace		
Components	Туре	Value		
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m3		
		20 ppm		
1,3,5-Trimethylbenzene (CAS 108-67-8)	TWA	100 mg/m3		
		20 ppm		
Cumene (CAS 98-82-8)	STEL	250 mg/m3		
		50 ppm		
	TWA	100 mg/m3		
		20 ppm		
Isopropyl alcohol (CAS 67-63-0)	STEL	500 mg/m3		
		203 ppm		
	TWA	200 mg/m3		
		81 ppm		
Mineral spirits (CAS 64742-88-7)	STEL	200 mg/m3		
	TWA	100 mg/m3		
Morpholine (CAS 110-91-8)	STEL	72 mg/m3		
		20 ppm		
	TWA	36 mg/m3		
		10 ppm		
Xylene (CAS 1330-20-7)	STEL	442 mg/m3		
		100 ppm		
	TWA	221 mg/m3		
		50 ppm		

#### Slovakia. OELs. Decree of the government of the Slovak Republic concerning protection of health in work with chemical agents

Components	Туре	Value	
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m3	
		20 ppm	
1,3,5-Trimethylbenzene (CAS 108-67-8)	TWA	100 mg/m3	
		20 ppm	
Amorphous Silica: Uncalcinated Diatomaceous Earth (CAS 61790-53-2)	TWA	0,3 mg/m3	
Cumene (CAS 98-82-8)	TWA	100 mg/m3	
		20 ppm	
lsopropyl alcohol (CAS 67-63-0)	TWA	500 mg/m3	
		200 ppm	
Morpholine (CAS 110-91-8)	TWA	36 mg/m3	
		10 ppm	

Slovakia. OELs. Decree of the government of the Slovak Republic concerning protection of health in work with chemical agents				
Components	Туре	Value		
Xylene (CAS 1330-20-7)	TWA	221 mg/m3		
		50 ppm		
Slovakia. OELs. Regulation No. 30 Components	00/2007 concerning protection Type	n of health in work with chemical agents Value		
Cumene (CAS 98-82-8)	STEL	250 mg/m3		
		50 ppm		
Isopropyl alcohol (CAS 67-63-0)	STEL	1000 mg/m3		
		400 ppm		
Morpholine (CAS 110-91-8)	STEL	72 mg/m3		
		20 ppm		
Xylene (CAS 1330-20-7)	STEL	442 mg/m3		
		100 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	Туре	Value	Form
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m3	
		20 ppm	
1,3,5-Trimethylbenzene (CAS 108-67-8)	TWA	100 mg/m3	
		20 ppm	
Amorphous Silica: Uncalcinated Diatomaceous Earth (CAS 61790-53-2)	TWA	4 mg/m3	Inhalable fraction.
Cumene (CAS 98-82-8)	TWA	100 mg/m3	
		20 ppm	
Isopropyl alcohol (CAS 67-63-0)	TWA	500 mg/m3	
		200 ppm	
Morpholine (CAS 110-91-8)	TWA	36 mg/m3	
		10 ppm	
Xylene (CAS 1330-20-7)	TWA	221 mg/m3	
		50 ppm	
Spain. Occupational Exposure Limits			
Components	Туре	Value	
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m3	
		20 ppm	
1,3,5-Trimethylbenzene (CAS 108-67-8)	TWA	100 mg/m3	
		20 ppm	
Cumene (CAS 98-82-8)	STEL	250 mg/m3	
		50 ppm	
	TWA	100 mg/m3	
		20 ppm	
Isopropyl alcohol (CAS 67-63-0)	STEL	1000 mg/m3	
		400 ppm	
	TWA	500 mg/m3	
		200 ppm	

## Spain. Occupational Exposure Limits

Components	Туре	Value	
Mineral spirits (CAS 64742-88-7)	TWA	200 mg/m3	
Morpholine (CAS 110-91-8)	STEL	72 mg/m3	
		20 ppm	
	TWA	36 mg/m3	
		10 ppm	
Xylene (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	

### Sweden. OELs. Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2015:7) Components Type Value

components	туре	value		
1,2,4-Trimethyl benzene (CAS 95-63-6)	Ceiling	170 mg/m3		
		35 ppm		
	TWA	100 mg/m3		
		20 ppm		
1,3,5-Trimethylbenzene (CAS 108-67-8)	Ceiling	170 mg/m3		
		35 ppm		
	TWA	100 mg/m3		
		20 ppm		
Cumene (CAS 98-82-8)	Ceiling	250 mg/m3		
		50 ppm		
	TWA	100 mg/m3		
		20 ppm		
Isopropyl alcohol (CAS 67-63-0)	STEL	600 mg/m3		
		250 ppm		
	TWA	350 mg/m3		
		150 ppm		
Morpholine (CAS 110-91-8)	Ceiling	72 mg/m3		
		20 ppm		
	TWA	35 mg/m3		
		10 ppm		
Xylene (CAS 1330-20-7)	Ceiling	442 mg/m3		
		100 ppm		
	TWA	221 mg/m3		
		50 ppm		
Switzerland. SUVA Grenzwerte am	Arbeitsplatz			
Components	Туре	Value Form		
1,2,4-Trimethyl benzene (CAS 95-63-6)	STEL	200 mg/m3		
		40 ppm		
	TWA	100 mg/m3		
		20 ppm		
1,3,5-Trimethylbenzene (CAS 108-67-8)	STEL	200 mg/m3		
		40 ppm		
	TWA	100 mg/m3		
		20 ppm		

## Switzerland, SUVA Grenzwerte am Arbeitsplatz

Components	Туре	Value	Form
Amorphous Silica: Uncalcinated Diatomaceous Earth (CAS 61790-53-2)	TWA	4 mg/m3	Inhalable fraction.
Cumene (CAS 98-82-8)	STEL	400 mg/m3	
		80 ppm	
	TWA	100 mg/m3	
		20 ppm	
Isopropyl alcohol (CAS 67-63-0)	STEL	1000 mg/m3	
		400 ppm	
	TWA	500 mg/m3	
		200 ppm	
Mineral spirits (CAS 64742-88-7)	TWA	1100 mg/m3	
		300 ppm	
Morpholine (CAS 110-91-8)	STEL	72 mg/m3	
		20 ppm	
	TWA	36 mg/m3	
		10 ppm	
Xylene (CAS 1330-20-7)	STEL	870 mg/m3	
		200 ppm	
	TWA	435 mg/m3	
		100 ppm	

## UK. EH40 Workplace Exposure Limits (WELs)

Components	Туре	Value	Form	
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	125 mg/m3		
		25 ppm		
1,3,5-Trimethylbenzene (CAS 108-67-8)	TWA	125 mg/m3		
		25 ppm		
Amorphous Silica: Uncalcinated Diatomaceous Earth (CAS 61790-53-2)	TWA	6 mg/m3	Inhalable dust.	
		2,4 mg/m3	Respirable dust.	
Cumene (CAS 98-82-8)	STEL	250 mg/m3		
		50 ppm		
	TWA	125 mg/m3		
		25 ppm		
Isopropyl alcohol (CAS 67-63-0)	STEL	1250 mg/m3		
		500 ppm		
	TWA	999 mg/m3		
		400 ppm		
Morpholine (CAS 110-91-8)	STEL	72 mg/m3		
		20 ppm		
	TWA	36 mg/m3		
		10 ppm		
Xylene (CAS 1330-20-7)	STEL	441 mg/m3		
		100 ppm		
	TWA	220 mg/m3		
		50 ppm		

Components	Туре	Value	
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m3	
		20 ppm	
1,3,5-Trimethylbenzene (CAS 108-67-8)	TWA	100 mg/m3	
		20 ppm	
Cumene (CAS 98-82-8)	STEL	250 mg/m3	
		50 ppm	
	TWA	100 mg/m3	
		20 ppm	
Morpholine (CAS 110-91-8)	STEL	72 mg/m3	
		20 ppm	
	TWA	36 mg/m3	
		10 ppm	
Xylene (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	

#### EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU Components Value

#### **Biological limit values**

#### Croatia. BLV. Dangerous Substance Exposure Limit Values at Workplace, Annexes 4 (as amended) Components Value Determinant Specimen Sampling Time

•			•	1 0	
1,3,5-Trimethylbenzene (CAS 108-67-8)	400 mg/g	Dimethylbenzoi c acid (sum of all isomers)	Creatinine in urine	*	
Isopropyl alcohol (CAS 67-63-0)	50 mg/l	Acetone	Blood	*	
	50 mg/l	Acetone	Urine	*	
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 Indictators 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
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 HealthComponentsValueDeterminantSpecimenSampling Time

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	
Xvlene (CAS 1330-20-7)	1500 ma/a	Acides	Creatinine in	*	

	méthylhippuriq	urine	
	ues		

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

Components	Value	Determinant	Specimen	Sampling Time	
1,2,4-Trimethyl benzene (CAS 95-63-6)	400 mg/g	Dimethylbenzo esäuren (Summe aller Isomeren nach Hydrolyse)	Creatinine in urine	*	
1,3,5-Trimethylbenzene (CAS 108-67-8)	400 mg/g	Dimethylbenzo esäuren (Summe aller Isomeren nach Hydrolyse)	Creatinine in urine	*	
Cumene (CAS 98-82-8)	10 mg/g	2-Phenyl-2-pro panol (nach Hydrolyse)	Creatinine in urine	*	
lsopropyl alcohol (CAS 67-63-0)	25 mg/l	ACETON	Blood	*	
	25 mg/l	ACETON	Urine	*	
Xylene (CAS 1330-20-7)	2000 mg/l	Methylhippur-(T olur-) säure (alle Isomere)	Urine	*	

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

\* - 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	
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
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
Isopropyl alcohol (CAS 67-63-0)	40 mg/l	Acetona	Urine	*
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	
Cumene (CAS 98-82-8)	20 mg/g	2-Phenyl-2-pro panol (nach Hydrolyse)	Creatinine in urine	*	
lsopropyl alcohol (CAS 67-63-0)	25 mg/l	ACETON	Urine	*	
	25 mg/l	ACETON	Blood	*	
Xylene (CAS 1330-20-7)	2 g/l	Methyl-Hippurs äure	Urine	*	

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

UK. EH40 Biological Mon Components	itoring Guidance Va Value	lues (BMGVs) Determinant	Specimen	Sampling Time
Xylene (CAS 1330-20-7)	650 mmol/mol	Methyl hippuric acid	Creatinine in urine	*
* - For sampling details, ple	ease see the source d	locument.		
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 Value	s: Skin designation			
Cumene (CAS 98-82-8 Xylene (CAS 1330-20- Slovenia. OELs. Regulati (Official Gazette of the Re	<sup>3)</sup> -7) ons concerning prot epublic of Slovenia)	Can be Can be tection of workers ag	absorbed throug absorbed throug ainst risks due	gh the skin. gh the skin. <b>to exposure to chemicals while working</b>
Cumene (CAS 98-82-8 Morpholine (CAS 110- Xylene (CAS 1330-20-	3) 91-8) -7)	Can be Can be Can be	absorbed throug absorbed throug absorbed throug	gh the skin. gh the skin. gh the skin.
8.2. Exposure controls				
Appropriate engineering controls	Good general ve applicable, use p maintain airborn exhaust ventilati	ntilation should be use process enclosures, loc e levels below recomm on. Provide easy acces	d. Ventilation rat al exhaust ventil ended exposure s to water suppl	tes should be matched to conditions. If lation, or other engineering controls to limits. Explosion-proof general and local ly and eye wash facilities.
Individual protection measure	es, such as persona	I protective equipmer	nt	
General information	Use personal pro according to the equipment.	otective equipment as r CEN standards and in	equired. Person discussion with	al protection equipment should be chosen the supplier of the personal protective
Eye/face protection	Wear safety glas Eye protection s	ses with side shields ( hould meet standard E	or goggles). Wea N 166.	ar face shield if there is risk of splashes.
Skin protection				
- Hand protection	Wear suitable gl Frequent change Other suitable gl	oves tested to EN374. e is advisable. Neopren oves can be recommer	Be aware that th le, butyl rubber, nded by the glov	le liquid may penetrate the gloves. nitrile or Viton® gloves are recommended. e supplier.
- Other	Wear appropriate	e chemical resistant clo	othing. Use of an	impervious apron is recommended.
Respiratory protection	If engineering co limits (where app been established combination filte respiratory prote	ntrols do not maintain a blicable) or to an accep d), an approved respira r, type A2/P2. Respirat ctive equipment supplie	airborne concen table level (in co tor must be worr ory protection sh ers.	trations below recommended exposure ountries where exposure limits have not n. Use respiratory equipment with nould meet standard EN 14387. Check with
Thermal hazards	Wear appropriat	e thermal protective clo	othing, when nec	essary.
Hygiene measures	When using do r after handling the clothing and prot	not smoke. Always obse e material and before e ective equipment to re	erve good perso ating, drinking, a move contamina	nal hygiene measures, such as washing and/or smoking. Routinely wash work ınts.
Environmental exposure controls	Inform appropria from ventilation of requirements of modifications to levels.	te managerial or super or work process equipn environmental protection the process equipment	visory personne nent should be c on legislation. Fu may be necess	I of all environmental releases. Emissions hecked to ensure they comply with the ime scrubbers, filters or engineering ary to reduce emissions to acceptable
SECTION 9: Physical ar	d chemical prop	erties		

## 9.1. Information on basic physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid.
Colour	Off-white.
Odour	Solvent.
Odour threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.

Initial boiling point and boiling range	Not available.
Flash point	> 38,0 °C (> 100,4 °F) (Estimated)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
9.2. Other information	No relevant additional information available.

## **SECTION 10: Stability and reactivity**

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.			
10.2. Chemical stability	Material is stable under normal conditions.			
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.			
10.4. Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Protect against direct sunlight. Contact with incompatible materials.			
10.5. Incompatible materials	Acids. Strong oxidising agents. Chlorine. Fluorine. Isocyanates.			
10.6. Hazardous decomposition products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.			

## **SECTION 11: Toxicological information**

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

Information on likely routes of ex	rposure
Inhalation	May cause drowsiness and dizziness. Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation. May be absorbed through the skin.
Eye contact	Causes serious eye irritation.
Ingestion	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.
Symptoms	Aspiration may cause pulmonary oedema and pneumonitis. May cause drowsiness and dizziness. Narcosis. Headache. Nausea, vomiting. Behavioural changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.

## 11.1. Information on toxicological effects

Acute toxicity	Not expected to be acutely toxic.		
Components	Species	Test Results	
1,2,4-Trimethyl benzene	(CAS 95-63-6)		
Acute			
Oral			
LD50	Rat	2720 - 3960 mg/kg	
Diethylbenzene (CAS 25	340-17-4)		
Acute			
Dermal			
LD50	Rat	> 2000 mg/kg	
Oral			
LD50	Rat	2050 mg/kg	

Components	Species		Test Results
Isopropyl alcohol (CAS 67-63-0)			
<u>Acute</u>			
Dermal			
LD50	Rabbit		12870 mg/kg
Inhalation			
Vapour			
LC50	Rat		72.6 mg/L 4 hours
Oral			,
	Rat		4710 ma/ka
Minaral apirita (CAS 64742.99.7)			in to highly
Acute			
	Pabhit		2000 ma/ka
EDS0	Rabbit		3000 mg/kg
Oral	Dat		5000
LD50	Rat		> 5000 mg/kg
Morpholine (CAS 110-91-8)			
<u>Acute</u>			
Dermal			
LD50	Rabbit		500 mg/kg
Inhalation			
LC50	Rat		8000 ppm, 8 hours
Oral			
LD50	Rat		1050 mg/kg
Xylene (CAS 1330-20-7)			
<u>Acute</u>			
Oral			
LD50	Rat		3523 mg/kg
Skin corrosion/irritation	Causes skin irritation.		
Serious eve damage/eve	Causes serious eve irritation		
irritation			
Respiratory sensitisation	Due to partial or complete lack	of data the classification	on is not possible.
Skin sensitisation	Due to partial or complete lack	of data the classification	on is not possible.
Germ cell mutagenicity	Based on available data, the cl	lassification criteria are	not met.
Carcinogenicity	Risk of cancer cannot be exclu	ded with prolonged exp	oosure.
Hungary 26/2000 FüM Ordin	ance on protection against an	nd preventing risk rela	ating to exposure to carcinogens at work
(as amended)			
Mineral spirits (CAS 64742	2-88-7)		
Solvent Naphta (petroleun	n), Light Aromatic (CAS 64742-9	95-6)	
IARC Monographs. Overall E	valuation of Carcinogenicity		
Cumene (CAS 98-82-8)	62.0	2B Possibly carcinoge	enic to humans.
Mineral spirits (CAS 6474)	-03-0) 2-88-7)	3 Not classifiable as to	o carcinogenicity to humans.
Morpholine (CAS 110-91-8	3)	3 Not classifiable as to	o carcinogenicity to humans.
Solvent Naphta (petroleun	), Light Aromatic	3 Not classifiable as to	o carcinogenicity to humans.
(CAS 64742-95-6)		O Niet elses Geble es t	
Aylene (CAS 1330-20-7)	Parad an available data, the al		not mot
	May acuse drawsinger and dia		not met.
single exposure	may cause drowsiness and diz	ziness.	
Specific target organ toxicity - repeated exposure	Causes damage to organs (cer	ntral nervous system) t	hrough prolonged or repeated exposure.
Aspiration hazard	May be fatal if swallowed and e	enters airways.	
Mixture versus substance information	No information available.		
Other information	Symptoms may be delayed.		

## **SECTION 12: Ecological information**

12.1. Toxicity	Toxic to aqua	tic life with long lasting effects.	
Components		Species	Test Results
1,2,4-Trimethyl benzene (CAS 95-	-63-6)		
Aquatic			
Acute			
Fish	LC50	Fathead minnow (Pimephales promelas)	7,72 mg/l, 96 hours
Diethylbenzene (CAS 25340-17-4)	)		
Aquatic			
Acute	<b>E-050</b>	Decude kirch revielle eukeenitete	1.04 mg/l. 70 hours
Algae	ErC50		1,21 mg/i, 72 nours
Crustacea	EC50	Daphnia magna	2,01 mg/i, 48 nours
Fish	LC50	Oncorhynchus mykiss	0,673 mg/l, 96 hours
Isopropyl alcohol (CAS 67-63-0) Aquatic Acute			
Crustacea	LC50	Daphnia magna	> 10000 mg/L 24 hours
Fish	1 C 50	Pimenhales promelas	9640 mg/l 96 hours
Chronic	2000		
Crustacea	EC50	Daphnia magna	> 100 mg/l, 21 days
	NOEC	Daphnia magna	141 mg/L 16 days
			30 mg/l 21 days
Xylong (CAS 1330 20 7)			30 mg/l, 21 days
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	2,6 mg/l, 96 hours
12.2. Persistence and degradability	No data is ava	ailable on the degradability of this product.	
12.3. Bioaccumulative potential			
Partition coefficient			
n-octanol/water (log Kow)			
Isopropyl alcohol (CAS 67-63-	-0)	3,66	
Morpholine (CAS 110-91-8)	0)	-0,86	
Xylene (CAS 1330-20-7)		3,12 - 3,2	
Bioconcentration factor (BCF)	Not available.		
12.4. Mobility in soil	No data availa	able for this product.	
12.5. Results of PBT and vPvB assessment	This mixture d (EC) No 1907	loes not contain substances assessed to b /2006, Annex XIII.	e vPvB / PBT according to Regulation
12.6. Other adverse effects	The product c potential.	contains volatile organic compounds which	have a photochemical ozone creation
12.7. Additional information			
Estonia Dangerous substan	ces in groundv	water Data	
Isopropyl alcohol (CAS 6	7-63-0)	Pesticides (total) 0,5 ug/l Pesticides (total) 5 ug/l	
Estonia Dangerous substan	Ces in soil Data	a Synthetic posticides (tets	l of active substances) 0.5 mg/kg
	7-03-0)	Synthetic pesticides (tota Synthetic pesticides (tota Synthetic pesticides (tota	al of active substances) 0,5 mg/kg al of active substances) 20 mg/kg al of active substances) 5 mg/kg
<b>SECTION 13: Disposal con</b>	nsiderations	;	
13.1. Waste treatment methods			
Residual waste	Dispose of in	accordance with local regulations. Empty c	ontainers or liners may retain some
	product residu	ues. This material and its container must be	e disposed of in a safe manner.
Contaminated packaging	Since emptied emptied. Emp	d containers may retain product residue, fol ty containers should be taken to an approv	low label warnings even after container is red 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 v disposal company.	waste
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not a this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or d with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.	allow litches
Special precautions	Dispose in accordance with all applicable regulations.	
SECTION 14: Transport inf	ormation	
ADR		
14.1 UN number	UN1268	
14.2. UN proper shipping	PETROLEUM PRODUCTS, N.O.S.	
name		
14.3. Transport hazard class	(es)	
Class Outraidiana ninte	3	
Subsidiary risk	3	
Hazard No. (ADR)	30	
Tunnel restriction code	D/E	
14.4. Packing group	III	
14.5. Environmental hazards	Yes	
14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.	
RID		
14.1. UN number	UN1268	
14.2. UN proper shipping	PETROLEUM PRODUCTS, N.O.S.	
name		
14.3. Transport hazard class(	(es)	
Class Subsidiary risk	3	
Subsidiary risk	3	
14.4. Packing group		
14.5. Environmental hazards	Yes	
14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.	
for user		
ADN 14.1 UN number	LIN1268	
14.2. UN proper shipping	PETROLEUM PRODUCTS, N.O.S.	
name		
14.3. Transport hazard class	(es)	
Class	3	
Subsidiary risk	-	
Label(S)	3	
14.5. Environmental hazards	Yes	
14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.	
for user		
ΙΑΤΑ	1014000	
14.1. UN number	UN1268 Potroloum products, p.o.s.	
name	Petroleum products, n.o.s.	
14.3. Transport hazard class(	(es)	
Class	3	
Subsidiary risk	-	
Label(s)	3	
14.4. Packing group		
FRG Code	3	
14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.	
for user		
IMDG		
14.1. UN number	UN1268	
14.2. UN proper shipping	PETROLEUM PRODUCTS, N.O.S.	
14.3. Transport hazard class/	(es)	
Class	3	
TR 502 Wax Build Up Remover		SDS EL

Subsidiary risk	-
14.4. Packing group	III
14.5. Environmental hazards	
Marine pollutant	Yes
EmS	F-E, S-E
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

### **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 Xylene (CAS 1330-20-7)
- 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 authorisation, 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 Isopropyl alcohol (CAS 67-63-0)

Mineral spirits (CAS 64742-88-7)

Solvent Naphta (petroleum), Light Aromatic (CAS 64742-95-6)

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 (CAS 64742-88-7) Solvent Naphta (petroleum), Light Aromatic (CAS 64742-95-6)

#### Other EU regulations

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

1,2,4-Trimethyl benzene (CAS 95-63-6) 1,3,5-Trimethylbenzene (CAS 108-67-8) Cumene (CAS 98-82-8) Isopropyl alcohol (CAS 67-63-0) Morpholine (CAS 110-91-8) Xylene (CAS 1330-20-7)

#### Other regulations

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. Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as National regulations amended. 15.2. Chemical safety No Chemical Safety Assessment has been carried out. assessment

### **SECTION 16: Other information**

#### List of abbreviations

angerous Goods by Road. hips Carrying Dangerous Ships. doods by Rail. posure Indices
hips Carrying Dangerous Ships. Goods by Rail. posure Indices
Ships. Goods by Rail. posure Indices
Ships. Goods by Rail. posure Indices combination of calculation
boods by Rail. posure Indices combination of calculation
posure Indices combination of calculation
posure Indices combination of calculation
posure Indices combination of calculation
combination of calculation
combination of calculation
combination of calculation
ıre.
osure.
on and its product, or the used. It is the user's sal of the product, and to
on and its product, used. It is the use al of the product, a