## 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-920 Mold Release

Registration number

Synonyms None. TR 920 **Product number** 

18-June-2019 Issue date

Version number 03

**Revision date** 10-March-2020 10-March-2020 Supersedes date

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

Identified uses Mold release. Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

TR Industries a Division of Granitize Products Inc. Company name

**Address** 11022 Vulcan Street

South Gate, CA 90280-0893

**United States** 

**Telephone** (562) 923-5438

CHEMTREC: (800) 424-9300 **Emergency telephone** 

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 H315 - Causes skin irritation. Category 2

Serious eye damage/eye irritation Category 2 H319 - Causes serious eye

irritation.

Specific target organ toxicity - single

exposure

Category 3 respiratory tract irritation H335 - May cause respiratory

irritation.

Specific target organ toxicity - single exposure

Category 3 narcotic effects

H336 - May cause drowsiness or dizziness.

Aspiration hazard Category 1 H304 - May be fatal if swallowed

and enters airways.

**Environmental hazards** 

Hazardous to the aquatic environment, Category 2 H411 - Toxic to aquatic life with long-term aquatic hazard

long lasting effects.

May be ignited by heat, sparks or flames. Causes skin irritation. Causes serious eye irritation. May **Hazard summary** 

cause irritation to the respiratory system. May cause drowsiness and dizziness. 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: 1,2,4-Trimethyl benzene, 1,3,5-Trimethylbenzene, Cumene, Diethylbenzene, Ethylbenzene,

Solvent naphtha (petroleum), light aromatic, Xylene

TR-920 Mold Release SDS EU

914052 Version #: 03 Revision date: 10-March-2020 Issue date: 18-June-2019

#### **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.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.

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.

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.	REACH Re	egistration No.	Index No.	Notes
1,2,4-Trimethyl benzene		30 - 60	95-6 202-4			-	601-043-00-3	#
Classification:	Flam. Liq. 3;H 4;H332, STO					Eye Irrit. 2;H31	9, Acute Tox.	
Solvent naphtha (petrolei aromatic	um), light	30 - 60	64742 265-1			-	649-356-00-4	
Classification:	Flam. Liq. 3;H Chronic 2;H4	′ '	. Tox. 1;H3	04, Skin Iı	rit. 2;H315,	STOT SE 3;H3:	36, Aquatic	Р
1,3,5-Trimethylbenzene		5 - 10	108-6 203-6			-	601-025-00-5	#
Classification:	Flam. Liq. 3;H335, Aqua			04, Skin Iı	rit. 2;H315,	Eye Irrit. 2;H31	9, STOT SE	
Cumene		1 - 5	98-8 202-7			-	601-024-00-X	#
Classification:	Flam. Liq. 3;	H226, Asp.	Tox. 1;H3	04, STOT	SE 3;H335,	Aquatic Chroni	ic 2;H411	С
Diethylbenzene		1 - 5	25340 246-8			-	-	
Classification:	Flam. Liq. 3;H Chronic 1;H4		. Tox. 1;H3	04, Skin Iı	rit. 2;H315,	Aquatic Acute 1	;H400, Aquatic	
Xylene		1 - 5	1330- 215-5			-	601-022-00-9	#
Classification:						2, Skin Irrit. 2;H3 E 3;H336, STO		С

TR-920 Mold Release SDS EU

914052 Version #: 03 Revision date: 10-March-2020 Issue date: 18-June-2019

Chemical name CAS-No. / EC No. REACH Registration No. Index No. Notes #

100-41-4 Ethylbenzene 0.1 - 1

202-849-4

601-023-00-4

Classification: Flam. Liq. 2;H225, Asp. Tox. 1;H304, Acute Tox. 4;H332, STOT RE 2;H373, Aquatic

Chronic 3;H412

#### 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.

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). When the substance is not classified as a carcinogen at least the precautionary statements (P102-)P260- P262-P301 + P310-P331 shall apply. This note applies only to certain complex oil-derived substances in Part 3.

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

All concentrations are in percent by weight unless otherwise indicated. Components not listed are

either non-hazardous or are below reportable limits.

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

Take off all contaminated clothing immediately. If you feel unwell, seek medical advice (show the **General information** 

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 measures

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.

Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation Skin contact

occurs: Get medical advice/attention.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

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. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain.

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 measures**

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. When using do not smoke. 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. Avoid breathing mist/vapours. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. 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

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).

7.3. Specific end use(s)

Mould release.

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

#### 8.1. Control parameters

#### Occupational exposure limits

Austria.	MAK	List
Austria.		

Components	Туре	Value	
1,2,4-Trimethyl benzene (CAS 95-63-6)	MAK	100 mg/m3	
•		20 ppm	

Austria.	MAK	List
----------	-----	------

Austria. MAK List Components	Туре	Value
	STEL	150 mg/m3
		30 ppm
I,3,5-Trimethylbenzene CAS 108-67-8)	MAK	100 mg/m3
		20 ppm
	STEL	150 mg/m3
		30 ppm
Cumene (CAS 98-82-8)	MAK	100 mg/m3
		20 ppm
	STEL	250 mg/m3
		50 ppm
Ethylbenzene (CAS 00-41-4)	Ceiling	880 mg/m3
		200 ppm
	MAK	440 mg/m3
		100 ppm
(Vylene (CAS 1330-20-7)	MAK	221 mg/m3
		50 ppm
	STEL	442 mg/m3
		100 ppm
Belgium. Exposure Limit Values		
Components	Туре	Value
,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
Cumene (CAS 98-82-8)	STEL	250 mg/m3
		50 ppm
	TWA	100 mg/m3
		20 ppm
Ethylbenzene (CAS 100-41-4)	STEL	551 mg/m3
	TIALA	125 ppm
	TWA	442 mg/m3
		100 ppm
(ylene (CAS 1330-20-7)	STEL	442 mg/m3
	<b>-</b>	100 ppm
	TWA	221 mg/m3
		50 ppm
Bulgaria. OELs. Regulation No 13 Components	3 on protection of workers aga	inst risks of exposure to chemical agents at work 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
	STEL	250 mg/m3
Cumene (CAS 98-82-8)	SILL	250 mg/m5

Components	Type	Value
	TWA	100 mg/m3
		20 ppm
Diethylbenzene (CAS 25340-17-4)	TWA	10 mg/m3
Ethylbenzene (CAS 100-41-4)	STEL	545 mg/m3
·	TWA	435 mg/m3
Kylene (CAS 1330-20-7)	STEL	442 mg/m3
		100 ppm
	TWA	221 mg/m3
		50 ppm
Croatia. Dangerous Substance Ex Components	posure Limit Values in the Wor Type	rkplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09 Value
1,2,4-Trimethyl benzene	MAC	100 mg/m3
CAS 95-63-6)		•
		20 ppm
l,3,5-Trimethylbenzene CAS 108-67-8)	MAC	100 mg/m3
		20 ppm
Cumene (CAS 98-82-8)	MAC	100 mg/m3
		20 ppm
	STEL	250 mg/m3
		50 ppm
Ethylbenzene (CAS 00-41-4)	MAC	442 mg/m3
		100 ppm
	STEL	884 mg/m3
		200 ppm
(ylene (CAS 1330-20-7)	MAC	221 mg/m3
		50 ppm
	STEL	442 mg/m3
		100 ppm
Cyprus. OELs. Control of factory a Components	tmosphere and dangerous sul	bstances in factories regulation, PI 311/73, as amended
	Туре	Value
	<b>Type</b> TWA	Value 245 mg/m3
Cumene (CAS 98-82-8)	TWA	245 mg/m3
Cumene (CAS 98-82-8)  Czech Republic. OELs. Government	TWA	245 mg/m3
Cumene (CAS 98-82-8)  Czech Republic. OELs. Government Components  1,2,4-Trimethyl benzene	TWA	245 mg/m3 50 ppm
Cumene (CAS 98-82-8)  Czech Republic. OELs. Government Components  1,2,4-Trimethyl benzene	TWA nt Decree 361 Type	245 mg/m3 50 ppm <b>Value</b>
Cumene (CAS 98-82-8)  Czech Republic. OELs. Government Components 1,2,4-Trimethyl benzene CAS 95-63-6) 1,3,5-Trimethylbenzene	nt Decree 361 Type Ceiling	245 mg/m3 50 ppm  Value  250 mg/m3
Cumene (CAS 98-82-8)  Czech Republic. OELs. Government Components 1,2,4-Trimethyl benzene CAS 95-63-6) 1,3,5-Trimethylbenzene	TWA  nt Decree 361 Type Ceiling TWA	245 mg/m3 50 ppm  Value  250 mg/m3 100 mg/m3
Cumene (CAS 98-82-8)  Czech Republic. OELs. Government Components 1,2,4-Trimethyl benzene (CAS 95-63-6) 1,3,5-Trimethylbenzene (CAS 108-67-8)	TWA  nt Decree 361 Type  Ceiling  TWA Ceiling	245 mg/m3 50 ppm  Value  250 mg/m3 100 mg/m3 250 mg/m3
Cumene (CAS 98-82-8)  Czech Republic. OELs. Government Components 1,2,4-Trimethyl benzene (CAS 95-63-6) 1,3,5-Trimethylbenzene (CAS 108-67-8)	TWA  nt Decree 361     Type     Ceiling     TWA     Ceiling  TWA	245 mg/m3 50 ppm  Value  250 mg/m3 100 mg/m3 250 mg/m3 100 mg/m3
Cumene (CAS 98-82-8)  Czech Republic. OELs. Government Components  1,2,4-Trimethyl benzene (CAS 95-63-6)  1,3,5-Trimethylbenzene (CAS 108-67-8)  Cumene (CAS 98-82-8)  Ethylbenzene (CAS 100-41-4)	TWA  nt Decree 361 Type  Ceiling  TWA Ceiling  TWA Ceiling	245 mg/m3 50 ppm  Value  250 mg/m3 100 mg/m3 250 mg/m3 100 mg/m3 250 mg/m3
Cumene (CAS 98-82-8)  Czech Republic. OELs. Government Components  1,2,4-Trimethyl benzene (CAS 95-63-6)  1,3,5-Trimethylbenzene (CAS 108-67-8)  Cumene (CAS 98-82-8)  Ethylbenzene (CAS	TWA  nt Decree 361 Type  Ceiling  TWA Ceiling  TWA Ceiling  TWA Ceiling  TWA	245 mg/m3 50 ppm  Value  250 mg/m3 100 mg/m3 250 mg/m3 100 mg/m3 250 mg/m3 100 mg/m3
Cumene (CAS 98-82-8)  Czech Republic. OELs. Government Components  1,2,4-Trimethyl benzene (CAS 95-63-6)  1,3,5-Trimethylbenzene (CAS 108-67-8)  Cumene (CAS 98-82-8)  Ethylbenzene (CAS	TWA  nt Decree 361 Type  Ceiling  TWA Ceiling  TWA Ceiling  TWA Ceiling  TWA Ceiling	245 mg/m3 50 ppm  Value  250 mg/m3 100 mg/m3 250 mg/m3 100 mg/m3 250 mg/m3 100 mg/m3 500 mg/m3

Denmark. Exposure Limit Values Components	Туре	Value	
1,2,4-Trimethyl benzene (CAS 95-63-6)	TLV	100 mg/m3	
		20 ppm	
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	
Ethylbenzene (CAS 100-41-4)	TLV	217 mg/m3	
		50 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)

2001) Components	Туре	Value	
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m3	
		20 ppm	
Cumene (CAS 98-82-8)	STEL	250 mg/m3	
		50 ppm	
	TWA	100 mg/m3	
		20 ppm	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
Xylene (CAS 1330-20-7)	STEL	450 mg/m3	
		100 ppm	
	TWA	200 mg/m3	
		50 ppm	
Finland. Workplace Exposure Lin	nits		
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	
Ethylbenzene (CAS 100-41-4)	STEL	880 mg/m3	
		200 ppm	
	TWA	220 mg/m3	
		50 ppm	
Xylene (CAS 1330-20-7)	STEL	440 mg/m3	
Xylene (CAS 1330-20-7)	STEL	440 mg/m3 100 ppm	

TR-920 Mold Release SDS EU

914052 Version #: 03 Revision date: 10-March-2020 Issue date: 18-June-2019

Components Value Type

		50 ppm
France. Threshold Limit Components	Values (VLEP) for Occupational Expose Type	ure to Chemicals in France, INRS ED 984 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)	
		20 ppm
Regulatory status:	Regulatory binding (VRC)	
1,3,5-Trimethylbenzene (CAS 108-67-8)	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)	
		20 ppm
Regulatory status:	Regulatory binding (VRC)	
Cumene (CAS 98-82-8)	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)	20 ppm
Regulatory status:	Regulatory binding (VRC)	
Ethylbenzene (CAS 100-41-4)	VLE	442 mg/m3
Regulatory status:	Regulatory binding (VRC)	
		100 ppm
Regulatory status:	Regulatory binding (VRC)	
	VME	88,4 mg/m3
Regulatory status:	Regulatory binding (VRC)	
		20 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)	
Germany. DFG MAK Lis	t (advisory OELs). Commission for the I	nvestigation of Health Hazards of Chemical Compounds

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

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	
	,		

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

in the Work Area (DFG) Components	Туре	Value	
		20 ppm	
Cumene (CAS 98-82-8)	TWA	50 mg/m3	
		10 ppm	
Diethylbenzene (CAS 25340-17-4)	TWA	28 mg/m3	
		5 ppm	
Ethylbenzene (CAS 100-41-4)	TWA	88 mg/m3	
		20 ppm	
Xylene (CAS 1330-20-7)	TWA	440 mg/m3	
		100 ppm	
Germany. TRGS 900, Limit Value Components	s in the Ambient Air at the Wor Type	kplace Value	
1,2,4-Trimethyl benzene	AGW	100 mg/m3	
(CAS 95-63-6)	7.011	-	
		20 ppm	
1,3,5-Trimethylbenzene (CAS 108-67-8)	AGW	100 mg/m3	
		20 ppm	
Cumene (CAS 98-82-8)	AGW	50 mg/m3	
		10 ppm	
Ethylbenzene (CAS 100-41-4)	AGW	88 mg/m3	
		20 ppm	
Xylene (CAS 1330-20-7)	AGW	200 mg/m3	
Greece. OELs (Decree No. 90/199 Components	9, as amended) Type	Value	
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	125 mg/m3	
4.2.5. Trims of hould a make a	T\A/A	25 ppm	
1,3,5-Trimethylbenzene (CAS 108-67-8)	TWA	125 mg/m3 25 ppm	
Cumene (CAS 98-82-8)	STEL		
Currierie (CAS 96-62-6)	SIEL	370 mg/m3	
	TIAIA	75 ppm	
	TWA	245 mg/m3	
F/II. II	OTEL	50 ppm	
Ethylbenzene (CAS 100-41-4)	STEL	545 mg/m3	
	T14/4	125 ppm	
	TWA	435 mg/m3	
		100 ppm	
Xylene (CAS 1330-20-7)	STEL	650 mg/m3	
		150 ppm	
	TWA	435 mg/m3	
		100 ppm	
Hungary. OELs. Joint Decree on Components	Chemical Safety of Workplace Type	s Value	
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m3	
1,3,5-Trimethylbenzene	TWA	100 mg/m3	
(CAS 108-67-8)	IWA	roo mg/mo	

Hungary. OELs. Joint Decree on Components	Chemical Safety of Workplace Type	s Value	
Cumene (CAS 98-82-8)	STEL	250 mg/m3	
	TWA	100 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
,	TWA	442 mg/m3	
Xylene (CAS 1330-20-7)	STEL	442 mg/m3	
	TWA	221 mg/m3	
Iceland. OELs. Regulation 154/19 Components	999 on occupational exposure I Type	imits Value	
1,2,4-Trimethyl benzene	TWA	100 mg/m3	
(CAS 95-63-6)		20 ppm	
1,3,5-Trimethylbenzene	TWA	100 mg/m3	
(CAS 108-67-8)		20 ppm	
Cumene (CAS 98-82-8)	STEL	250 mg/m3	
James (5/ 10 00 02 0)	JILL	50 ppm	
	TWA	100 mg/m3	
	IWA	20 ppm	
Ethylbenzene (CAS	STEL	884 mg/m3	
100-41-4)	SILL	200 ppm	
	TWA	* *	
	IVVA	200 mg/m3	
Video (040 4000 00 7)	OTEL	50 ppm	
Xylene (CAS 1330-20-7)	STEL	442 mg/m3	
	T14/4	100 ppm	
	TWA	109 mg/m3	
		25 ppm	
Ireland. Occupational Exposure			
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	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
Xylene (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
		r r	

Italy. OELs Components	Туре	Value
1,2,4-Trimethyl benzene	TWA	100 mg/m3
(CAS 95-63-6)		-
		20 ppm
1,3,5-Trimethylbenzene (CAS 108-67-8)	TWA	100 mg/m3
(S/18 188 87 8)		20 ppm
Cumene (CAS 98-82-8)	STEL	250 mg/m3
		50 ppm
	TWA	100 mg/m3
		20 ppm
Ethylbenzene (CAS	STEL	884 mg/m3
100-41-4)		
	T14/4	200 ppm
	TWA	442 mg/m3
V 1 (OAO 4000 00 7)	OTE	100 ppm
Xylene (CAS 1330-20-7)	STEL	442 mg/m3
	T14/4	100 ppm
	TWA	221 mg/m3
		50 ppm
Latvia. OELs. Occupational expo Components	sure limit values of chemical s Type	substances in work environment Value
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m3
		20 ppm
1,3,5-Trimethylbenzene	TWA	100 mg/m3
(CAS 108-67-8)		20 ppm
Cumene (CAS 98-82-8)	STEL	250 mg/m3
(0.12.22.2)		50 ppm
	TWA	100 mg/m3
		20 ppm
Ethylbenzene (CAS	STEL	884 mg/m3
100-41-4)		
		200 ppm
	TWA	442 mg/m3
		100 ppm
Xylene (CAS 1330-20-7)	STEL	442 mg/m3
		100 ppm
	TWA	221 mg/m3
		50 ppm
Lithuania. OELs. Limit Values fo Components	r Chemical Substances, Gene Type	ral Requirements (Hygiene Norm HN 23:2007) Value
1,2,4-Trimethyl benzene	TWA	100 mg/m3
(CAS 95-63-6)		20 nnm
1,3,5-Trimethylbenzene	STEL	20 ppm 150 mg/m3
(CAS 108-67-8)	SIEL	150 mg/ms
·		30 ppm
	TWA	100 mg/m3
		20 ppm
Cumene (CAS 98-82-8)	STEL	170 mg/m3
		35 ppm
		000 5

Components	Туре	Value
	TWA	100 mg/m3
		20 ppm
Diethylbenzene (CAS 25340-17-4)	TWA	10 mg/m3
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3
		200 ppm
	TWA	442 mg/m3
		100 ppm
Solvent naphtha (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 (Ann	•
components	Tyne	,. Value

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	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 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	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	

Schedules I and V) Components	Туре	Value
Ethylbenzene (CAS	STEL	884 mg/m3
100-41-4)	0.22	SS / Hig/His
		200 ppm
	TWA	442 mg/m3
		100 ppm
Xylene (CAS 1330-20-7)	STEL	442 mg/m3
		100 ppm
	TWA	221 mg/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
Ethylbenzene (CAS 100-41-4)	STEL	430 mg/m3
,	TWA	215 mg/m3
Xylene (CAS 1330-20-7)	STEL	442 mg/m3
	TWA	210 mg/m3
Norway. Administrative Norms fo	or Contaminants in the Workpla	ace
Components	Туре	Value
1,2,4-Trimethyl benzene	TLV	100 mg/m3
(CAS 95-63-6)		20 ppm
	TLV	20 ppm 100 mg/m3
(CAS 95-63-6) 1,3,5-Trimethylbenzene	TLV	
(CAS 95-63-6) 1,3,5-Trimethylbenzene	TLV STEL	100 mg/m3
(CAS 95-63-6) 1,3,5-Trimethylbenzene (CAS 108-67-8)		100 mg/m3 20 ppm
(CAS 95-63-6) 1,3,5-Trimethylbenzene (CAS 108-67-8)		100 mg/m3 20 ppm 250 mg/m3
(CAS 95-63-6) 1,3,5-Trimethylbenzene (CAS 108-67-8)	STEL	100 mg/m3 20 ppm 250 mg/m3 50 ppm
(CAS 95-63-6)  1,3,5-Trimethylbenzene (CAS 108-67-8)  Cumene (CAS 98-82-8)  Ethylbenzene (CAS	STEL	100 mg/m3 20 ppm 250 mg/m3 50 ppm 100 mg/m3
(CAS 95-63-6)  1,3,5-Trimethylbenzene (CAS 108-67-8)  Cumene (CAS 98-82-8)	STEL	100 mg/m3 20 ppm 250 mg/m3 50 ppm 100 mg/m3 20 ppm
(CAS 95-63-6)  1,3,5-Trimethylbenzene (CAS 108-67-8)  Cumene (CAS 98-82-8)  Ethylbenzene (CAS	STEL	100 mg/m3 20 ppm 250 mg/m3 50 ppm 100 mg/m3 20 ppm 20 mg/m3
(CAS 95-63-6)  1,3,5-Trimethylbenzene (CAS 108-67-8)  Cumene (CAS 98-82-8)  Ethylbenzene (CAS 100-41-4)	STEL TLV TLV	100 mg/m3 20 ppm 250 mg/m3 50 ppm 100 mg/m3 20 ppm 20 mg/m3
(CAS 95-63-6)  1,3,5-Trimethylbenzene (CAS 108-67-8)  Cumene (CAS 98-82-8)  Ethylbenzene (CAS 100-41-4)  Xylene (CAS 1330-20-7)	STEL TLV TLV TLV our and Social Policy on 6 Jun	100 mg/m3  20 ppm 250 mg/m3  50 ppm 100 mg/m3  20 ppm 20 mg/m3  5 ppm 108 mg/m3 25 ppm
(CAS 95-63-6)  1,3,5-Trimethylbenzene (CAS 108-67-8)  Cumene (CAS 98-82-8)  Ethylbenzene (CAS 100-41-4)  Xylene (CAS 1330-20-7)  Ordinance of the Minister of Laboratory	STEL TLV TLV TLV our and Social Policy on 6 Jun	100 mg/m3  20 ppm 250 mg/m3  50 ppm 100 mg/m3  20 ppm 20 mg/m3  5 ppm 108 mg/m3 25 ppm
(CAS 95-63-6)  1,3,5-Trimethylbenzene (CAS 108-67-8)  Cumene (CAS 98-82-8)  Ethylbenzene (CAS 100-41-4)  Xylene (CAS 1330-20-7)  Ordinance of the Minister of Laborintensities of harmful health factor	STEL  TLV  TLV  TLV  our and Social Policy on 6 Junors in the work environment, J	100 mg/m3  20 ppm 250 mg/m3  50 ppm 100 mg/m3  20 ppm 20 ppm 20 mg/m3  5 ppm 108 mg/m3 25 ppm e 2014 on the maximum permissible concentrations and ournal of Laws 2014, item 817
(CAS 95-63-6)  1,3,5-Trimethylbenzene (CAS 108-67-8)  Cumene (CAS 98-82-8)  Ethylbenzene (CAS 100-41-4)  Xylene (CAS 1330-20-7)  Ordinance of the Minister of Laborintensities of harmful health factor Components  1,2,4-Trimethyl benzene	STEL  TLV  TLV  TLV  our and Social Policy on 6 Juncts in the work environment, J Type	100 mg/m3  20 ppm 250 mg/m3 50 ppm 100 mg/m3 20 ppm 20 mg/m3 5 ppm 108 mg/m3 25 ppm e 2014 on the maximum permissible concentrations and ournal of Laws 2014, item 817 Value
(CAS 95-63-6)  1,3,5-Trimethylbenzene (CAS 108-67-8)  Cumene (CAS 98-82-8)  Ethylbenzene (CAS 100-41-4)  Xylene (CAS 1330-20-7)  Ordinance of the Minister of Laborintensities of harmful health factor Components  1,2,4-Trimethyl benzene	STEL  TLV  TLV  TLV  our and Social Policy on 6 Junors in the work environment, J Type  STEL	20 ppm 250 mg/m3 50 ppm 100 mg/m3 20 ppm 20 ppm 20 mg/m3 5 ppm 108 mg/m3 25 ppm 108 mg/m3 25 ppm e 2014 on the maximum permissible concentrations and ournal of Laws 2014, item 817 Value  170 mg/m3
(CAS 95-63-6)  1,3,5-Trimethylbenzene (CAS 108-67-8)  Cumene (CAS 98-82-8)  Ethylbenzene (CAS 100-41-4)  Xylene (CAS 1330-20-7)  Ordinance of the Minister of Laborintensities of harmful health factor Components  1,2,4-Trimethyl benzene (CAS 95-63-6)  1,3,5-Trimethylbenzene	STEL  TLV  TLV  Dur and Social Policy on 6 Junors in the work environment, J  Type  STEL  TWA	100 mg/m3  20 ppm 250 mg/m3 50 ppm 100 mg/m3 20 ppm 20 mg/m3 5 ppm 108 mg/m3 25 ppm 108 mg/m3 25 ppm e 2014 on the maximum permissible concentrations and ournal of Laws 2014, item 817 Value  170 mg/m3 100 mg/m3
(CAS 95-63-6)  1,3,5-Trimethylbenzene (CAS 108-67-8)  Cumene (CAS 98-82-8)  Ethylbenzene (CAS 100-41-4)  Xylene (CAS 1330-20-7)  Ordinance of the Minister of Laborintensities of harmful health factor Components  1,2,4-Trimethyl benzene (CAS 95-63-6)  1,3,5-Trimethylbenzene	STEL  TLV  TLV  TLV  Dur and Social Policy on 6 Juncts in the work environment, J Type  STEL  TWA  STEL	20 ppm 250 mg/m3 50 ppm 100 mg/m3 20 ppm 20 mg/m3 5 ppm 20 mg/m3 5 ppm 108 mg/m3 25 ppm e 2014 on the maximum permissible concentrations and ournal of Laws 2014, item 817 Value  170 mg/m3 100 mg/m3 170 mg/m3

Components	Туре	Value	
Diethylbenzene (CAS 25340-17-4)	STEL	400 mg/m3	
	TWA	100 mg/m3	
Ethylbenzene (CAS 100-41-4)	STEL	400 mg/m3	
	TWA	200 mg/m3	
Xylene (CAS 1330-20-7)	TWA	100 mg/m3	
Portugal. OELs. Decree-Law n. 2 Components	90/2001 (Journal of the Repub Type	lic - 1 Series A, n.266) 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	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
Xylene (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
Portugal. VLEs. Norm on occupa Components	itional exposure to chemical a	gents (NP 1796) Value	
Cumene (CAS 98-82-8)	TWA	50 ppm	
Ethylbenzene (CAS 100-41-4)	TWA	20 ppm	
Xylene (CAS 1330-20-7)	STEL	150 ppm	
	TWA	100 ppm	
Romania. OELs. Protection of wo	orkers from exposure to chemi Type	cal agents at the workplace 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	
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
220 Mold Pologo			

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
Cumene (CAS 98-82-8)	TWA	100 mg/m3
		20 ppm
Ethylbenzene (CAS 100-41-4)	TWA	442 mg/m3
		100 ppm
Xylene (CAS 1330-20-7)	TWA	221 mg/m3
		50 ppm
Slovakia OFI's Regulation No. 3	300/2007 concerning protection	n of health in work with chemical agents

Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents Components Value **Type** Cumene (CAS 98-82-8) STEL 250 mg/m3 50 ppm Ethylbenzene (CAS **STEL** 884 mg/m3 100-41-4) 200 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	
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)	TWA	100 mg/m3	
		20 ppm	
Ethylbenzene (CAS 100-41-4)	TWA	442 mg/m3	
		100 ppm	
Xylene (CAS 1330-20-7)	TWA	221 mg/m3	
		50 ppm	
Spain. Occupational Exposure Li	mits		
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	

TR-920 Mold Release SDS EU

914052 Version #: 03 Revision date: 10-March-2020 Issue date: 18-June-2019

Spain. Occupational Exposure Limits		
Components	Туре	Value
Cumene (CAS 98-82-8)	STEL	250 mg/m3
		50 ppm
	TWA	100 mg/m3
		20 ppm
Ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3
		200 ppm
	TWA	441 mg/m3
		100 ppm
Xylene (CAS 1330-20-7)	STEL	442 mg/m3
		100 ppm
	TWA	221 mg/m3
		50 ppm
Swaden OELe Week Environment Auth	ority (AM) Occupational Evacoure I	
Sweden. OELs. Work Environment Authoromponents	Type	Value (AFS 2015:7)
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
Ethylbenzene (CAS 100-41-4)	Ceiling	884 mg/m3
,		200 ppm
	TWA	220 mg/m3
		50 ppm
Xylene (CAS 1330-20-7)	Ceiling	442 mg/m3
		100 ppm
	TWA	221 mg/m3
		50 ppm
Switzerland. SUVA Grenzwerte am Arbei	tenlatz	• •
Components	Type	Value
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	STEL	200 mg/m3
(CAS 108-67-8)		40 ppm
	TWA	100 mg/m3
	TWA	20 ppm
Cumene (CAS 98-82-8)	STEL	20 ppm 400 mg/m3
Jamono (0/10 30-02-0)	OILL	TOO IIIG/IIIO

914052 Version #: 03 Revision date: 10-March-2020 Issue date: 18-June-2019

TWA 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	
1,3,5-Trimethylbenzene (CAS 108-67-8)	400 mg/g	Dimethylbenzoi c acid (sum of all isomers)	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	*	
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	*	

<sup>\* -</sup> 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
Ethylbenzene (CAS 100-41-4)	1100 µmol/mmol	Mandelic acid	Creatinine in urine	*
	1500 mg/g	Mandelic acid	Creatinine in urine	*
Xylene (CAS 1330-20-7)	820 µmol/mmol	Methylhippuric acids	Creatinine in urine	*
	1400 mg/g	Methylhippuric acids	Creatinine in urine	*

<sup>\* -</sup> 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	*	
Xylene (CAS 1330-20-7)	5 mmol/l	Methylhippuric acids	Urine	*	

<sup>\* -</sup> 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

Components	Value	Determinant	Specimen	Sampling Time	
Ethylbenzene (CAS 100-41-4)	1500 mg/g	Acide mandélique	Creatinine in urine	*	
Xylene (CAS 1330-20-7)	1500 mg/g	Acides méthylhippuriq ues	Creatinine in urine	*	

<sup>\* -</sup> For sampling details, please see the source document.

Germany. TRGS 903, BA Components	T List (Biological Value	Limit Values) 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	*	
Ethylbenzene (CAS 100-41-4)	250 mg/g	Mandelsäure plus Phenylglyoxyls äure	Creatinine in urine	*	
Xylene (CAS 1330-20-7)	2000 mg/l	Methylhippur-(T olur-) säure (alle Isomere)	Urine	*	

<sup>\* -</sup> 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	*
Xylene (CAS 1330-20-7)	1500 mg/g	methyl hippuric acids	Creatinine in urine	*
	860 µmol/mmol	methyl hippuric acids	Creatinine in urine	*

<sup>\* -</sup> 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
Ethylbenzene (CAS 100-41-4)	1067 mg/g	Sum of mandelic acid and phenylglyoxylic acid	Creatinine in urine	*
	12 mg/l	2-ethylphenol	Urine	*
Xylene (CAS 1330-20-7)	1334 mg/g	Methylhippuric acids	Creatinine in urine	*
	2000 mg/l	Methylhippuric acids	Urine	*
	1,5 mg/l	Xylene	Blood	*

<sup>\* -</sup> 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

Ethylbenzene (CAS 100-41-4)	700 mg/g	Suma del acido mandélico y el ácido fenilglioxílico	Creatinine in urine	*
Xylene (CAS 1330-20-7)	1 g/g	Ácidos metilhipúricos	Creatinine in urine	*

<sup>\* -</sup> For sampling details, please see the source document.

Switzerland. BAT-Werte Components	Value	Determinant	Specimen	Sampling Time
Cumene (CAS 98-82-8)	20 mg/g	2-Phenyl-2-pro panol (nach Hydrolyse)	Creatinine in urine	*
Ethylbenzene (CAS 100-41-4)	600 mg/g	Mandelsäure plus Phenylglyoxyls äure	Creatinine in urine	*
Xylene (CAS 1330-20-7)	2 g/l	Methyl-Hippurs äure	Urine	*
* - For sampling details, pl	ease see the source d	locument.		
UK. EH40 Biological Mor Components	nitoring 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, pl	ease see the source d	locument.		
commended monitoring ocedures	Follow standard	monitoring procedures		
rived no effect levels NELs)	Not available.			
edicted no effect ncentrations (PNECs)	Not available.			
posure guidelines				
EU Exposure Limit Value	es: Skin designation			
Cumene (CAS 98-82- Ethylbenzene (CAS 1 Xylene (CAS 1330-20 Slovenia. OELs. Regulati (Official Gazette of the R	00-41-4) I-7) ions concerning prot	Can be Can be	absorbed throug absorbed throug absorbed throug ainst risks due	gh the skin.
Cumene (CAS 98-82-	•	Can be	absorbed through	gh the skin.
Ethylbenzene (CAS 100-41-4) Xylene (CAS 1330-20-7)		Can be absorbed through the skin.  Can be absorbed through the skin.		
. Exposure controls				
propriate engineering ntrols	applicable, use p maintain airborne	process enclosures, loc e levels below recomm	al exhaust ventil ended exposure	tes should be matched to conditions. If lation, or other engineering controls to limits. Explosion-proof general and loca y and eye wash facilities.
lividual protection measur	es, such as persona	I protective equipmen	nt	
General information				al protection equipment should be chose the supplier of the personal protective
Eye/face protection		Wear safety glasses with side shields (or goggles). Wear face shield if there is risk of splashes. Eye protection should meet standard EN 166.		
Skin protection				
- Hand protection	Frequent change			e liquid may penetrate the gloves. nended. Other suitable gloves can be
- Other			othing Use of an	impervious apron is recommended

## Ind

	exhaust ventilation. Provide easy access to water supply and eye wash facilities.
Individual protection measures	s, such as personal protective equipment
General information	Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
Eye/face protection	Wear safety glasses with side shields (or goggles). Wear face shield if there is risk of splashes. Eye protection should meet standard EN 166.
Skin protection	
- Hand protection	Wear suitable gloves tested to EN374. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Nitrile gloves are recommended. Other suitable gloves can be recommended by the glove supplier.
- Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use respiratory equipment with combination filter, type A2/P2. Respiratory protection should meet standard EN 14387. Check with respiratory protective equipment suppliers.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
Hygiene measures	When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
Environmental exposure controls	Inform appropriate managerial or supervisory personnel of all environmental releases. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable

SDS EU TR-920 Mold Release

914052 Version #: 03 Revision date: 10-March-2020 Issue date: 18-June-2019

levels.

#### **SECTION 9: Physical and chemical properties**

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

**Appearance** 

Liquid. Physical state **Form** Liquid. Clear. Colour

Characteristic. Odour **Odour threshold** Not available. Not available. Melting point/freezing point Not available.

Initial boiling point and boiling

> 153 °C (> 307,4 °F)

range

> 38,0 °C (> 100,4 °F) Flash point **Evaporation rate** Slower than ether. Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

Flammability limit - upper

Not available.

(%)

Vapour pressure 49 mm Hg (20°C / 68°F)

Vapour density > 1 (Air=1) 0,873 (Water=1) Relative density Not available. Solubility(ies) Partition coefficient Not available.

(n-octanol/water)

**Auto-ignition temperature** 480 °C (896 °F) (Estimated)

Not available. **Decomposition temperature** Not available. **Viscosity** Not explosive. **Explosive properties Oxidising properties** Not oxidising

9.2. Other information

> 85 % VOC

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

10.1. Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. 10.2. Chemical stability

10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Protect against direct sunlight. Contact with incompatible materials.

Strong acids. Strong oxidising agents. Halogens. Strong bases. Reducing Agents. Amines. 10.5. Incompatible materials

Ammonia. Aldehydes.

10.6. Hazardous

10.4. Conditions to avoid

decomposition products

Thermal decomposition of this product can generate carbon monoxide and carbon dioxide.

#### **SECTION 11: Toxicological information**

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

Information on likely routes of exposure

Inhalation May cause drowsiness and dizziness. May cause irritation to the respiratory system. Prolonged

inhalation may be harmful.

Causes skin irritation. May be absorbed through the skin. Skin contact

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.

TR-920 Mold Release SDS EU 21 / 26

914052 Version #: 03 Revision date: 10-March-2020 Issue date: 18-June-2019 **Symptoms** 

Aspiration may cause pulmonary oedema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain.

#### 11.1. Information on toxicological effects

Not expected to be acutely toxic. Acute toxicity

**Test Results** Components Species

1,2,4-Trimethyl benzene (CAS 95-63-6)

Acute

Oral LD50

Rat 2720 - 3960 mg/kg

Diethylbenzene (CAS 25340-17-4)

**Acute Dermal** 

LD50 Rat > 2000 mg/kg

Oral

LD50 Rat 2050 mg/kg

Ethylbenzene (CAS 100-41-4)

**Acute** 

**Dermal** 

LD50 Rabbit 15400 mg/kg

Inhalation

LC50 Rat 17,4 mg/l, 4 hours

Oral

LD50 Rat 3500 - 4700 mg/kg

Xylene (CAS 1330-20-7)

**Acute** 

Oral

LD50 Rat 3523 mg/kg

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Due to partial or complete lack of data the classification is not possible. Respiratory sensitisation Skin sensitisation Due to partial or complete lack of data the classification is not possible. Due to partial or complete lack of data the classification is not possible. Germ cell mutagenicity

Carcinogenicity Risk of cancer cannot be excluded with prolonged exposure.

Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)

Solvent naphtha (petroleum), light aromatic (CAS 64742-95-6)

IARC Monographs. Overall Evaluation of Carcinogenicity

Cumene (CAS 98-82-8) 2B Possibly carcinogenic to humans. Ethylbenzene (CAS 100-41-4) 2B Possibly carcinogenic to humans.

Solvent naphtha (petroleum), light aromatic 3 Not classifiable as to carcinogenicity to humans.

(CAS 64742-95-6)

Xylene (CAS 1330-20-7) 3 Not classifiable as to carcinogenicity to humans.

Due to partial or complete lack of data the classification is not possible. Reproductive toxicity

Specific target organ toxicity -

single exposure

repeated exposure

May cause respiratory irritation. May cause drowsiness and dizziness.

Specific target organ toxicity -Due to partial or complete lack of data the classification is not possible.

**Aspiration hazard** May be fatal if swallowed and enters airways.

Mixture versus substance

information

No information available.

Other information Symptoms may be delayed.

**SECTION 12: Ecological information** 

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

TR-920 Mold Release SDS EU

914052 Version #: 03 Revision date: 10-March-2020 Issue date: 18-June-2019

**Test Results** Components **Species** 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

Algae FrC50 Pseudokirchneriella subcapitata 1,21 mg/l, 72 hours EC50 Crustacea Daphnia magna 2,01 mg/l, 48 hours Fish LC50 Oncorhynchus mykiss 0,673 mg/l, 96 hours

Ethylbenzene (CAS 100-41-4)

Aquatic

Acute

Crustacea EC50 Water flea (Daphnia magna) 1,81 - 2,38 mg/l, 48 hours

Fish LC50 Rainbow trout, donaldson trout 4,2 mg/l, 96 hours

(Oncorhynchus mykiss)

Chronic

EC50 Crustacea Ceriodaphnia dubia 3,6 mg/l, 7 days

Solvent naphtha (petroleum), light aromatic (CAS 64742-95-6)

Aquatic

Acute

Crustacea EL50 Daphnia 4,5 mg/l, 48 hours Fish LL50 10 mg/l, 96 hours Oncorhynchus mykiss

Xylene (CAS 1330-20-7)

Aquatic

Fish LC50 Rainbow trout, donaldson trout 2,6 mg/l, 96 hours

(Oncorhynchus mykiss)

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)

3,66 Cumene (CAS 98-82-8) Ethylbenzene (CAS 100-41-4) 3,15 Xylene (CAS 1330-20-7) 3.12 - 3.2

**Bioconcentration factor (BCF)** 

Not available.

12.4. Mobility in soil

12.5. Results of PBT and vPvB

No data available for this product.

assessment

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation

(EC) No 1907/2006, Annex XIII.

12.6. Other adverse effects

The product contains volatile organic compounds which have a photochemical ozone creation potential.

12.7. Additional information

Estonia Dangerous substances in groundwater Data

Ethylbenzene (CAS 100-41-4) ETHYLBENZENE 0,5 ug/l ETHYLBENZENE 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

**SECTION 13: Disposal considerations** 

13.1. Waste treatment methods

Dispose of in accordance with local regulations. Empty containers or liners may retain some Residual waste

product residues. This material and its container must be disposed of in a safe manner.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

TR-920 Mold Release SDS EU 23 / 26 914052 Version #: 03 Revision date: 10-March-2020 Issue date: 18-June-2019

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

disposal company.

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

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

#### **SECTION 14: Transport information**

#### **ADR**

**14.1. UN number** UN1268

14.2. UN proper shipping PETROLEUM PRODUCTS, N.O.S.

name

14.3. Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 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.

for user

RID

**14.1. UN number** UN1268

14.2. UN proper shipping PETROLEUM PRODUCTS, N.O.S.

name

14.3. Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
14.4. Packing group III
14.5. Environmental hazards

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

for user

ADN

**14.1. UN number** UN1268

14.2. UN proper shipping PETROLEUM PRODUCTS, N.O.S.

name

14.3. Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
14.4. Packing group III
14.5. Environmental hazards Yes

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

for user

IATA

**14.1. UN number** UN1268

**14.2. UN proper shipping** Petroleum products, n.o.s.

name

14.3. Transport hazard class(es)

 Class
 3

 Subsidiary risk

 Label(s)
 3

 14.4. Packing group
 III

 14.5. Environmental hazards
 Yes

 ERG Code
 3L

**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.

name

TR-920 Mold Release

14.3. Transport hazard class(es)

Class 3

914052 Version #: 03 Revision date: 10-March-2020 Issue date: 18-June-2019 24 / 26

Subsidiary risk 14.4. Packing group ||||
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

#### **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 applicable.

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

Ethylbenzene (CAS 100-41-4) 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 Solvent naphtha (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.

Solvent naphtha (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) Ethylbenzene (CAS 100-41-4) 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.

National regulations Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as

amended

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

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

#### List of abbreviations

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland

Waterways.

ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road.

IATA: International Air Transport Association.

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk.

IMDG Code: International Maritime Dangerous Goods Code.

MARPOL: International Convention for the Prevention of Pollution from Ships. RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

STEL: Short-Term Exposure Limit. TWA: Time Weighted Average Value.

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

EPA: AQUIRE database

HSDB® - Hazardous Substances Data Bank

IARC Monographs. Overall Evaluation of Carcinogenicity National Toxicology Program (NTP) Report on Carcinogens

Information on evaluation method leading to the classification of mixture

References

The classification for health and environmental hazards is derived by a combination of calculation

methods and test data, if available.

Full text of any H-statements not written out in full under Sections 2 to 15

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
Follow training instructions when handling this material.

Training information Disclaimer

TR Industries cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the

sheet was written based on the best knowledge and experience currently available.