

# SAFETY DATA SHEET



SUPREMO AUFHELLEND 2025-05 - All variants

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

### 1.1 Product identifier

**Product name** : SUPREMO AUFHELLEND 2025-05 - All variants

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

**Product use** : Paint.

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

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091.

**e-mail address of person responsible for this SDS** : Prod-safe@teknos.com

### 1.4 Emergency telephone number

#### National advisory body/Poison Centre

**Telephone number** : In an emergency, call 112

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 2, H225

Skin Irrit. 2, H315

Eye Irrit. 2, H319

Skin Sens. 1, H317

Repr. 2, H361d

STOT SE 3, H336

STOT RE 2, H373

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

**Hazard pictograms** :



**Signal word** : Danger

**Hazard statements** : H225 - Highly flammable liquid and vapour.  
H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H319 - Causes serious eye irritation.  
H336 - May cause drowsiness or dizziness.  
H361d - Suspected of damaging the unborn child.  
H373 - May cause damage to organs through prolonged or repeated exposure.

#### Precautionary statements

## SECTION 2: Hazards identification

<b>Prevention</b>	: P280 - Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 - Do not breathe vapour.
<b>Response</b>	: P314 - Get medical advice/attention if you feel unwell.
<b>Storage</b>	: P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
<b>Disposal</b>	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
<b>Hazardous ingredients</b>	: Contains: n-Butyl acetate; Toluene; Mixture of alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-oxypoly(oxyethylene) and Fatty acids, C14-18 and C16-18-unsatd., maleated
<b>Supplemental label elements</b>	:
<b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b>	:

### 2.3 Other hazards

<b>Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII</b>	: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
<b>Other hazards which do not result in classification</b>	: None known.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
n-Butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥50 - ≤75	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1] [2]
Ethyl acetate	REACH #: 01-2119475103-46 EC: 205-500-4 CAS: 141-78-6 Index: 607-022-00-5	≥10 - ≤25	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	-	[1] [2]
Toluene	REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	≥10 - ≤25	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304	-	[1] [2]
Xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≤5	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/ l	[1] [2]

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Label No : 131541

## SECTION 3: Composition/information on ingredients

			STOT RE 2, H373 (oral, inhalation) Asp. Tox. 1, H304 Aquatic Chronic 3, H412		
2-Methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7	≤3	Flam. Liq. 3, H226	-	[2]
Propan-2-ol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≤3	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	-	[1]
Ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤3	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) (oral, inhalation) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
Mixture of alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl) propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl) propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl) propionyloxypoly(oxyethylene)	EC: 400-830-7 Index: 607-176-00-3	<1	Skin Sens. 1, H317 Aquatic Chronic 2, H411	-	[1]
Fatty acids, C14-18 and C16-18-unsatd., maleated	REACH #: 01-2119976378-19 EC: 288-306-2 CAS: 85711-46-2	≤0.3	Skin Irrit. 2, H315 Skin Sens. 1, H317	-	[1]
Maleic anhydride	REACH #: 01-2119472428-31 EC: 203-571-6 CAS: 108-31-6 Index: 607-096-00-9	≤0.0015	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1A, H317 STOT RE 1, H372 (respiratory system) (inhalation) EUH071 <b>See Section 16 for the full text of the H statements declared above.</b>	ATE [Oral] = 400 mg/kg Skin Sens. 1, H317: C ≥ 0.001%	[1]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

### Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

## SECTION 3: Composition/information on ingredients

Occupational exposure limits, if available, are listed in Section 8.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations

## SECTION 4: First aid measures

**Ingestion** : Adverse symptoms may include the following:  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations

### 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

**Unsuitable extinguishing media** : Do not use water jet.

### 5.2 Special hazards arising from the substance or mixture

**Hazards from the substance or mixture** : Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

**Hazardous combustion products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides

### 5.3 Advice for firefighters

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

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

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### 6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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

**Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

## SECTION 6: Accidental release measures

**Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

**6.4 Reference to other sections** : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. See Section 10 for incompatible materials before handling or use.

#### Seveso Directive - Reporting thresholds

##### Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonnes	50000 tonnes

### 7.3 Specific end use(s)

**Recommendations** : Not available.

**Industrial sector specific solutions** : Not available.

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
n-Butyl acetate	<b>Regulation on Limit Values - MAC (Austria, 12/2024) [Butylacetat alle Isomeren außer tert-Butylacet]</b> CEIL: 480 mg/m <sup>3</sup> . CEIL: 100 ppm. TWA 8 hours: 241 mg/m <sup>3</sup> . TWA 8 hours: 50 ppm.
Ethyl acetate	<b>Regulation on Limit Values - MAC (Austria, 12/2024)</b> TWA 8 hours: 200 ppm. TWA 8 hours: 734 mg/m <sup>3</sup> . PEAK 15 minutes: 1468 mg/m <sup>3</sup> 4 times per shift. PEAK 15 minutes: 400 ppm 4 times per shift.
Toluene	<b>Regulation on Limit Values - MAC (Austria, 12/2024) d.</b> Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 190 mg/m <sup>3</sup> . PEAK 15 minutes: 100 ppm 4 times per shift. PEAK 15 minutes: 380 mg/m <sup>3</sup> 4 times per shift.
Xylene	<b>Regulation on Limit Values - MAC (Austria, 12/2024) [Xylol (alle Isomeren, rein)]</b> PEAK 15 minutes: 442 mg/m <sup>3</sup> 4 times per shift. TWA 8 hours: 50 ppm. PEAK 15 minutes: 100 ppm 4 times per shift. TWA 8 hours: 221 mg/m <sup>3</sup> .
2-Methoxy-1-methylethyl acetate	<b>Regulation on Limit Values - MAC (Austria, 12/2024)</b> Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m <sup>3</sup> . CEIL 5 minutes: 100 ppm 8 times per shift. CEIL 5 minutes: 550 mg/m <sup>3</sup> 8 times per shift.
Propan-2-ol	<b>Regulation on Limit Values - MAC (Austria, 12/2024)</b> TWA 8 hours: 200 ppm. TWA 8 hours: 500 mg/m <sup>3</sup> . PEAK 15 minutes: 800 ppm 4 times per shift. PEAK 15 minutes: 2000 mg/m <sup>3</sup> 4 times per shift.
Ethylbenzene	<b>Regulation on Limit Values - MAC (Austria, 12/2024)</b> Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 440 mg/m <sup>3</sup> . CEIL 5 minutes: 200 ppm 8 times per shift. CEIL 5 minutes: 880 mg/m <sup>3</sup> 8 times per shift.
Maleic anhydride	<b>Regulation on Limit Values - MAC (Austria, 12/2024)</b> Inhalation sensitiser, Skin sensitiser. TWA 8 hours: 0.1 ppm. TWA 8 hours: 0.4 mg/m <sup>3</sup> . CEIL 5 minutes: 0.2 ppm 8 times per shift. CEIL 5 minutes: 0.8 mg/m <sup>3</sup> 8 times per shift.
n-Butyl acetate	<b>Limit values (Belgium, 12/2023) [butylacetaat]</b> STEL 15 minutes: 712 mg/m <sup>3</sup> . STEL 15 minutes: 150 ppm. TWA 8 hours: 238 mg/m <sup>3</sup> . TWA 8 hours: 50 ppm.
Ethyl acetate	<b>Limit values (Belgium, 12/2023)</b> TWA 8 hours: 200 ppm. TWA 8 hours: 734 mg/m <sup>3</sup> . STEL 15 minutes: 1468 mg/m <sup>3</sup> .

## SECTION 8: Exposure controls/personal protection

Toluene	<p>STEL 15 minutes: 400 ppm.  <b>Limit values (Belgium, 12/2023)</b> Absorbed through skin.                      TWA 8 hours: 20 ppm.                      TWA 8 hours: 77 mg/m<sup>3</sup>.                      STEL 15 minutes: 100 ppm.                      STEL 15 minutes: 384 mg/m<sup>3</sup>.</p>
Xylene	<p><b>Limit values (Belgium, 12/2023) [Xyleen]</b> Absorbed through skin.                      TWA 8 hours: 50 ppm.                      TWA 8 hours: 221 mg/m<sup>3</sup>.                      STEL 15 minutes: 100 ppm.                      STEL 15 minutes: 442 mg/m<sup>3</sup>.</p>
2-Methoxy-1-methylethyl acetate	<p><b>Limit values (Belgium, 12/2023)</b> Absorbed through skin.                      TWA 8 hours: 50 ppm.                      TWA 8 hours: 275 mg/m<sup>3</sup>.                      STEL 15 minutes: 100 ppm.                      STEL 15 minutes: 550 mg/m<sup>3</sup>.</p>
Propan-2-ol	<p><b>Limit values (Belgium, 12/2023)</b>                      TWA 8 hours: 200 ppm.                      TWA 8 hours: 500 mg/m<sup>3</sup>.                      STEL 15 minutes: 400 ppm.                      STEL 15 minutes: 1000 mg/m<sup>3</sup>.</p>
Ethylbenzene	<p><b>Limit values (Belgium, 12/2023)</b> Absorbed through skin.                      TWA 8 hours: 20 ppm.                      TWA 8 hours: 87 mg/m<sup>3</sup>.                      STEL 15 minutes: 125 ppm.                      STEL 15 minutes: 551 mg/m<sup>3</sup>.</p>
Maleic anhydride	<p><b>Limit values (Belgium, 12/2023)</b>                      TWA 8 hours: 0.0025 ppm. Form: vapour and aerosol.                      TWA 8 hours: 0.01 mg/m<sup>3</sup>. Form: vapour and aerosol.</p>
n-Butyl acetate	<p><b>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024)</b>                      Limit value 8 hours: 241 mg/m<sup>3</sup>.                      Limit value 15 minutes: 723 mg/m<sup>3</sup>.                      Limit value 15 minutes: 150 ppm.                      Limit value 8 hours: 50 ppm.</p>
Ethyl acetate	<p><b>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024)</b>                      Limit value 8 hours: 734 mg/m<sup>3</sup>.                      Limit value 15 minutes: 400 ppm.                      Limit value 15 minutes: 1468 mg/m<sup>3</sup>.                      Limit value 8 hours: 200 ppm.</p>
Toluene	<p><b>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024)</b> Absorbed through skin.                      Limit value 15 minutes: 384 mg/m<sup>3</sup>.                      Limit value 8 hours: 192 mg/m<sup>3</sup>.                      Limit value 15 minutes: 100 ppm.                      Limit value 8 hours: 50 ppm.</p>
Xylene	<p><b>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) [Xylene]</b> Absorbed through skin.                      Limit value 8 hours: 221 mg/m<sup>3</sup>.                      Limit value 15 minutes: 442 mg/m<sup>3</sup>.                      Limit value 15 minutes: 100 ppm.                      Limit value 8 hours: 50 ppm.</p>
2-Methoxy-1-methylethyl acetate	<p><b>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024)</b> Absorbed through skin.                      Limit value 8 hours: 275 mg/m<sup>3</sup>.                      Limit value 15 minutes: 550 mg/m<sup>3</sup>.                      Limit value 15 minutes: 100 ppm.                      Limit value 8 hours: 50 ppm.</p>
Propan-2-ol	

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Ethylbenzene	<p><b>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024)</b>  Limit value 8 hours: 980 mg/m<sup>3</sup>.  Limit value 15 minutes: 1225 mg/m<sup>3</sup>.</p> <p><b>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024)</b> Absorbed through skin.  Limit value 8 hours: 435 mg/m<sup>3</sup>.  Limit value 15 minutes: 545 mg/m<sup>3</sup>.</p>
Maleic anhydride	<p><b>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024)</b>  Limit value 8 hours: 1 mg/m<sup>3</sup>.</p>
n-Butyl acetate	<p><b>Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023)</b>  STELV 15 minutes: 723 mg/m<sup>3</sup>.  STELV 15 minutes: 150 ppm.  ELV 8 hours: 241 mg/m<sup>3</sup>.  ELV 8 hours: 50 ppm.</p>
Ethyl acetate	<p><b>Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023)</b>  STELV 15 minutes: 400 ppm.  ELV 8 hours: 200 ppm.  STELV 15 minutes: 1468 mg/m<sup>3</sup>.  ELV 8 hours: 734 mg/m<sup>3</sup>.</p>
Toluene	<p><b>Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023)</b> Absorbed through skin.  STELV 15 minutes: 384 mg/m<sup>3</sup>.  STELV 15 minutes: 100 ppm.  ELV 8 hours: 192 mg/m<sup>3</sup>.  ELV 8 hours: 50 ppm.</p>
Xylene	<p><b>Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) [ksilen]</b> Absorbed through skin.  STELV 15 minutes: 442 mg/m<sup>3</sup>.  STELV 15 minutes: 100 ppm.  ELV 8 hours: 221 mg/m<sup>3</sup>.  ELV 8 hours: 50 ppm.</p>
2-Methoxy-1-methylethyl acetate	<p><b>Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023)</b> Absorbed through skin.  STELV 15 minutes: 550 mg/m<sup>3</sup>.  STELV 15 minutes: 100 ppm.  ELV 8 hours: 275 mg/m<sup>3</sup>.  ELV 8 hours: 50 ppm.</p>
Propan-2-ol	<p><b>Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023)</b>  STELV 15 minutes: 1250 mg/m<sup>3</sup>.  STELV 15 minutes: 500 ppm.  ELV 8 hours: 999 mg/m<sup>3</sup>.  ELV 8 hours: 400 ppm.</p>
Ethylbenzene	<p><b>Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023)</b> Absorbed through skin.  STELV 15 minutes: 884 mg/m<sup>3</sup>.  STELV 15 minutes: 200 ppm.  ELV 8 hours: 442 mg/m<sup>3</sup>.  ELV 8 hours: 100 ppm.</p>
Maleic anhydride	<p><b>Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I)</b></p>

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n-Butyl acetate	<p><b>(Croatia, 12/2023)</b> Skin sensitiser , Inhalation sensitiser.          STELV 15 minutes: 0.2 ppm.          ELV 8 hours: 0.41 mg/m<sup>3</sup>.          STELV 15 minutes: 0.8 mg/m<sup>3</sup>.          ELV 8 hours: 0.1 ppm.</p> <p><b>Department of labour inspection (Cyprus, 7/2021)</b>          STEL 15 minutes: 150 ppm.          STEL 15 minutes: 723 mg/m<sup>3</sup>.          TWA 8 hours: 50 ppm.          TWA 8 hours: 241 mg/m<sup>3</sup>.</p>
Ethyl acetate	<p><b>Department of labour inspection (Cyprus, 7/2021)</b>          STEL 15 minutes: 400 ppm.          STEL 15 minutes: 1468 mg/m<sup>3</sup>.          TWA 8 hours: 200 ppm.          TWA 8 hours: 734 mg/m<sup>3</sup>.</p>
Toluene	<p><b>Department of labour inspection (Cyprus, 7/2021)</b> Absorbed through skin.          STEL 15 minutes: 100 ppm.          STEL 15 minutes: 384 mg/m<sup>3</sup>.          TWA 8 hours: 50 ppm.          TWA 8 hours: 192 mg/m<sup>3</sup>.</p>
Xylene	<p><b>Department of labour inspection (Cyprus, 7/2021) [Ξυλένιο, μικτά ισομερή, καθαρά]</b> Absorbed through skin.          STEL 15 minutes: 100 ppm.          STEL 15 minutes: 442 mg/m<sup>3</sup>.          TWA 8 hours: 50 ppm.          TWA 8 hours: 221 mg/m<sup>3</sup>.</p>
2-Methoxy-1-methylethyl acetate	<p><b>Department of labour inspection (Cyprus, 7/2021)</b> Absorbed through skin.          STEL 15 minutes: 100 ppm.          STEL 15 minutes: 550 mg/m<sup>3</sup>.          TWA 8 hours: 50 ppm.          TWA 8 hours: 275 mg/m<sup>3</sup>.</p>
Ethylbenzene	<p><b>Department of labour inspection (Cyprus, 7/2021)</b> Absorbed through skin.          STEL 15 minutes: 884 mg/m<sup>3</sup>.          TWA 8 hours: 100 ppm.          TWA 8 hours: 442 mg/m<sup>3</sup>.          STEL 15 minutes: 200 ppm.</p>
n-Butyl acetate	<p><b>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023)</b>          TWA 8 hours: 241 mg/m<sup>3</sup>.          STEL 15 minutes: 723 mg/m<sup>3</sup>.          STEL 15 minutes: 150 ppm.          TWA 8 hours: 50 ppm.</p>
Ethyl acetate	<p><b>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023)</b>          TWA 8 hours: 700 mg/m<sup>3</sup>.          TWA 8 hours: 191.1 ppm.          STEL 15 minutes: 900 mg/m<sup>3</sup>.          STEL 15 minutes: 245.7 ppm.</p>
Toluene	<p><b>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023)</b> Absorbed through skin.          TWA 8 hours: 192 mg/m<sup>3</sup>.          TWA 8 hours: 50 ppm.          STEL 15 minutes: 384 mg/m<sup>3</sup>.          STEL 15 minutes: 100 ppm.</p>
Xylene	<p><b>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) [xylen]</b> Absorbed through skin.          TWA 8 hours: 200 mg/m<sup>3</sup>.          TWA 8 hours: 45.33 ppm.          STEL 15 minutes: 400 mg/m<sup>3</sup>.</p>

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2-Methoxy-1-methylethyl acetate	<p>STEL 15 minutes: 90.66 ppm.</p> <p><b>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023)</b> Absorbed through skin.</p> <p>TWA 8 hours: 275 mg/m<sup>3</sup>.</p> <p>TWA 8 hours: 50 ppm.</p> <p>STEL 15 minutes: 550 mg/m<sup>3</sup>.</p> <p>STEL 15 minutes: 100 ppm.</p>
Propan-2-ol	<p><b>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023)</b></p> <p>TWA 8 hours: 500 mg/m<sup>3</sup>.</p> <p>TWA 8 hours: 200 ppm.</p> <p>STEL 15 minutes: 1000 mg/m<sup>3</sup>.</p> <p>STEL 15 minutes: 400 ppm.</p>
Ethylbenzene	<p><b>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023)</b> Absorbed through skin.</p> <p>TWA 8 hours: 200 mg/m<sup>3</sup>.</p> <p>TWA 8 hours: 45.33 ppm.</p> <p>STEL 15 minutes: 500 mg/m<sup>3</sup>.</p> <p>STEL 15 minutes: 113.32 ppm.</p>
Maleic anhydride	<p><b>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023)</b> Sensitiser.</p> <p>TWA 8 hours: 1 mg/m<sup>3</sup>.</p> <p>STEL 15 minutes: 2 mg/m<sup>3</sup>.</p>
n-Butyl acetate	<p><b>Working Environment Authority (Denmark, 12/2024)</b> <b>[butylacetat, alle isomerer]</b></p> <p>TWA 8 hours: 50 ppm.</p> <p>TWA 8 hours: 241 mg/m<sup>3</sup>.</p> <p>STEL 15 minutes: 723 mg/m<sup>3</sup>.</p> <p>STEL 15 minutes: 150 ppm.</p>
Ethyl acetate	<p><b>Working Environment Authority (Denmark, 12/2024)</b></p> <p>TWA 8 hours: 150 ppm.</p> <p>TWA 8 hours: 540 mg/m<sup>3</sup>.</p> <p>STEL 15 minutes: 1468 mg/m<sup>3</sup>.</p> <p>STEL 15 minutes: 400 ppm.</p>
Toluene	<p><b>Working Environment Authority (Denmark, 12/2024)</b> Absorbed through skin.</p> <p>TWA 8 hours: 25 ppm.</p> <p>TWA 8 hours: 94 mg/m<sup>3</sup>.</p> <p>STEL 15 minutes: 384 mg/m<sup>3</sup>.</p> <p>STEL 15 minutes: 100 ppm.</p>
Xylene	<p><b>Working Environment Authority (Denmark, 12/2024)</b> [xylen, alle isomere] Absorbed through skin.</p> <p>TWA 8 hours: 25 ppm.</p> <p>TWA 8 hours: 109 mg/m<sup>3</sup>.</p> <p>STEL 15 minutes: 442 mg/m<sup>3</sup>.</p> <p>STEL 15 minutes: 100 ppm.</p>
2-Methoxy-1-methylethyl acetate	<p><b>Working Environment Authority (Denmark, 12/2024)</b> <b>[2-methoxy-1-methylethylacetat]</b> Absorbed through skin.</p> <p>TWA 8 hours: 50 ppm.</p> <p>TWA 8 hours: 275 mg/m<sup>3</sup>.</p> <p>STEL 15 minutes: 550 mg/m<sup>3</sup>.</p> <p>STEL 15 minutes: 100 ppm.</p>
Propan-2-ol	<p><b>Working Environment Authority (Denmark, 12/2024)</b></p> <p>TWA 8 hours: 200 ppm.</p> <p>TWA 8 hours: 490 mg/m<sup>3</sup>.</p> <p>STEL 15 minutes: 980 mg/m<sup>3</sup>.</p> <p>STEL 15 minutes: 400 ppm.</p>
Ethylbenzene	<p><b>Working Environment Authority (Denmark, 12/2024)</b> K.</p> <p>Absorbed through skin.</p> <p>TWA 8 hours: 50 ppm.</p> <p>TWA 8 hours: 217 mg/m<sup>3</sup>.</p> <p>STEL 15 minutes: 434 mg/m<sup>3</sup>.</p> <p>STEL 15 minutes: 100 ppm.</p>

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Maleic anhydride	<b>Working Environment Authority (Denmark, 12/2024)</b> TWA 8 hours: 0.1 ppm. TWA 8 hours: 0.4 mg/m <sup>3</sup> . STEL 15 minutes: 0.8 mg/m <sup>3</sup> . STEL 15 minutes: 0.2 ppm.
n-Butyl acetate	<b>Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024)</b> STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m <sup>3</sup> . TWA 8 hours: 50 ppm. TWA 8 hours: 241 mg/m <sup>3</sup> .
Ethyl acetate	<b>Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024)</b> TWA 8 hours: 500 mg/m <sup>3</sup> . TWA 8 hours: 150 ppm. STEL 15 minutes: 1100 mg/m <sup>3</sup> . STEL 15 minutes: 300 ppm.
Toluene	<b>Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024)</b> Absorbed through skin. TWA 8 hours: 192 mg/m <sup>3</sup> . TWA 8 hours: 50 ppm. STEL 15 minutes: 384 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm.
Xylene	<b>Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) [ksüleen]</b> Absorbed through skin. TWA 8 hours: 50 ppm. STEL 15 minutes: 100 ppm. STEL 15 minutes: 450 mg/m <sup>3</sup> . TWA 8 hours: 200 mg/m <sup>3</sup> .
2-Methoxy-1-methylethyl acetate	<b>Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024)</b> Absorbed through skin , Sensitiser. STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m <sup>3</sup> . TWA 8 hours: 275 mg/m <sup>3</sup> . TWA 8 hours: 50 ppm.
Propan-2-ol	<b>Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024)</b> TWA 8 hours: 350 mg/m <sup>3</sup> . TWA 8 hours: 150 ppm. STEL 15 minutes: 600 mg/m <sup>3</sup> . STEL 15 minutes: 250 ppm.
Ethylbenzene	<b>Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024)</b> Absorbed through skin , Sensitiser. TWA 8 hours: 442 mg/m <sup>3</sup> . TWA 8 hours: 100 ppm. STEL 15 minutes: 884 mg/m <sup>3</sup> . STEL 15 minutes: 200 ppm.
Maleic anhydride	<b>Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024)</b> Sensitiser. TWA 8 hours: 1.2 mg/m <sup>3</sup> . TWA 8 hours: 0.3 ppm. STEL 15 minutes: 2.5 mg/m <sup>3</sup> . STEL 15 minutes: 0.6 ppm.
n-Butyl acetate	<b>EU OEL (Europe, 1/2022)</b> STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m <sup>3</sup> . TWA 8 hours: 241 mg/m <sup>3</sup> . TWA 8 hours: 50 ppm.
Ethyl acetate	<b>EU OEL (Europe, 1/2022)</b> STEL 15 minutes: 400 ppm. STEL 15 minutes: 1468 mg/m <sup>3</sup> . TWA 8 hours: 200 ppm.

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Toluene	<p>TWA 8 hours: 734 mg/m<sup>3</sup>.  <b>EU OEL (Europe, 1/2022)</b> Absorbed through skin.                      TWA 8 hours: 192 mg/m<sup>3</sup>.                      TWA 8 hours: 50 ppm.                      STEL 15 minutes: 384 mg/m<sup>3</sup>.                      STEL 15 minutes: 100 ppm.</p>
Xylene	<p><b>EU OEL (Europe, 1/2022) [xylene, mixed isomers]</b> Absorbed through skin.                      TWA 8 hours: 50 ppm.                      TWA 8 hours: 221 mg/m<sup>3</sup>.                      STEL 15 minutes: 100 ppm.                      STEL 15 minutes: 442 mg/m<sup>3</sup>.</p>
2-Methoxy-1-methylethyl acetate	<p><b>EU OEL (Europe, 1/2022)</b> Absorbed through skin.                      TWA 8 hours: 50 ppm.                      TWA 8 hours: 275 mg/m<sup>3</sup>.                      STEL 15 minutes: 100 ppm.                      STEL 15 minutes: 550 mg/m<sup>3</sup>.</p>
Ethylbenzene	<p><b>EU OEL (Europe, 1/2022)</b> Absorbed through skin.                      TWA 8 hours: 100 ppm.                      TWA 8 hours: 442 mg/m<sup>3</sup>.                      STEL 15 minutes: 200 ppm.                      STEL 15 minutes: 884 mg/m<sup>3</sup>.</p>
n-Butyl acetate	<p><b>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021)</b>                      TWA 8 hours: 150 ppm.                      TWA 8 hours: 720 mg/m<sup>3</sup>.                      STEL 15 minutes: 200 ppm.                      STEL 15 minutes: 960 mg/m<sup>3</sup>.</p>
Ethyl acetate	<p><b>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021)</b>                      TWA 8 hours: 200 ppm.                      TWA 8 hours: 730 mg/m<sup>3</sup>.                      STEL 15 minutes: 400 ppm.                      STEL 15 minutes: 1470 mg/m<sup>3</sup>.</p>
Toluene	<p><b>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021)</b> Absorbed through skin , Ototoxicant.                      TWA 8 hours: 25 ppm.                      TWA 8 hours: 81 mg/m<sup>3</sup>.                      STEL 15 minutes: 100 ppm.                      STEL 15 minutes: 380 mg/m<sup>3</sup>.</p>
Xylene	<p><b>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) [Ksyleeni]</b> Absorbed through skin.                      STEL 15 minutes: 440 mg/m<sup>3</sup>.                      TWA 8 hours: 220 mg/m<sup>3</sup>.                      TWA 8 hours: 50 ppm.                      STEL 15 minutes: 100 ppm.</p>
2-Methoxy-1-methylethyl acetate	<p><b>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021)</b> Absorbed through skin.                      TWA 8 hours: 50 ppm.                      TWA 8 hours: 270 mg/m<sup>3</sup>.                      STEL 15 minutes: 100 ppm.                      STEL 15 minutes: 550 mg/m<sup>3</sup>.</p>
Propan-2-ol	<p><b>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021)</b>                      TWA 8 hours: 200 ppm.                      TWA 8 hours: 500 mg/m<sup>3</sup>.                      STEL 15 minutes: 250 ppm.                      STEL 15 minutes: 620 mg/m<sup>3</sup>.</p>
Ethylbenzene	<p><b>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021)</b> Absorbed through skin.                      TWA 8 hours: 50 ppm.                      TWA 8 hours: 220 mg/m<sup>3</sup>.                      STEL 15 minutes: 200 ppm.</p>

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Maleic anhydride	<p>STEL 15 minutes: 880 mg/m<sup>3</sup>.  <b>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021)</b>  TWA 8 hours: 0.1 ppm.  TWA 8 hours: 0.41 mg/m<sup>3</sup>.  CEIL: 0.2 ppm.  CEIL: 0.81 mg/m<sup>3</sup>.</p>
n-Butyl acetate	<p><b>Ministry of Labor (France, 6/2024)</b>  TWA 8 hours: 50 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)  TWA 8 hours: 241 mg/m<sup>3</sup>. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)  STEL 15 minutes: 150 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)  STEL 15 minutes: 723 mg/m<sup>3</sup>. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)</p>
Ethyl acetate	<p><b>Ministry of Labor (France, 6/2024)</b>  TWA 8 hours: 200 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)  TWA 8 hours: 734 mg/m<sup>3</sup>. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)  STEL 15 minutes: 1468 mg/m<sup>3</sup>. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)  STEL 15 minutes: 400 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)</p>
Toluene	<p><b>Ministry of Labor (France, 6/2024)</b> Repr 2. Absorbed through skin , Ototoxicant.  TWA 8 hours: 20 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)  TWA 8 hours: 76.8 mg/m<sup>3</sup>. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)  STEL 15 minutes: 100 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)  STEL 15 minutes: 384 mg/m<sup>3</sup>. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)</p>
Xylene	<p><b>Ministry of Labor (France, 6/2024) [xylènes, isomères mixtes, purs]</b> Absorbed through skin.  STEL 15 minutes: 442 mg/m<sup>3</sup>. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)  STEL 15 minutes: 100 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)  TWA 8 hours: 221 mg/m<sup>3</sup>. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)  TWA 8 hours: 50 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)</p>
2-Methoxy-1-methylethyl acetate	<p><b>Ministry of Labor (France, 6/2024)</b> Absorbed through skin.  STEL 15 minutes: 550 mg/m<sup>3</sup>. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)  STEL 15 minutes: 100 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)  TWA 8 hours: 275 mg/m<sup>3</sup>. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)  TWA 8 hours: 50 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)</p>
Propan-2-ol	<p><b>Ministry of Labor (France, 6/2024)</b>  STEL 15 minutes: 400 ppm. Notes: Permissible limit values (circulars)  STEL 15 minutes: 980 mg/m<sup>3</sup>. Notes: Permissible limit values (circulars)</p>
Ethylbenzene	<p><b>Ministry of Labor (France, 6/2024)</b> Absorbed through skin.  TWA 8 hours: 20 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)</p>

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	<p>TWA 8 hours: 88.4 mg/m<sup>3</sup>. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)          STEL 15 minutes: 442 mg/m<sup>3</sup>. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)          STEL 15 minutes: 100 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)</p>
Maleic anhydride	<p><b>Ministry of Labor (France, 6/2024)</b> Sensitiser.          STEL 15 minutes: 1 mg/m<sup>3</sup>. Notes: Permissible limit values (article R. 4412-149 of the Labor Code)</p>
n-Butyl acetate	<p><b>TRGS 900 OEL (Germany, 6/2024)</b>          TWA 8 hours: 300 mg/m<sup>3</sup>.          TWA 8 hours: 62 ppm.          PEAK 15 minutes: 600 mg/m<sup>3</sup>.          PEAK 15 minutes: 124 ppm.  <b>DFG MAC-values list (Germany, 7/2024)</b> Develop C.          TWA 8 hours: 100 ppm.          PEAK 15 minutes: 200 ppm 4 times per shift [Interval: 1 hour].          TWA 8 hours: 480 mg/m<sup>3</sup>.          PEAK 15 minutes: 960 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour].</p>
Ethyl acetate	<p><b>TRGS 900 OEL (Germany, 6/2024)</b>          TWA 8 hours: 730 mg/m<sup>3</sup>.          PEAK 15 minutes: 1460 mg/m<sup>3</sup>.          TWA 8 hours: 200 ppm.          PEAK 15 minutes: 400 ppm.  <b>DFG MAC-values list (Germany, 7/2024)</b> Develop C.          TWA 8 hours: 200 ppm.          PEAK 15 minutes: 400 ppm 4 times per shift [Interval: 1 hour].          TWA 8 hours: 750 mg/m<sup>3</sup>.          PEAK 15 minutes: 1500 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour].</p>
Toluene	<p><b>TRGS 900 OEL (Germany, 6/2024)</b> Absorbed through skin.          TWA 8 hours: 190 mg/m<sup>3</sup>.          PEAK 15 minutes: 380 mg/m<sup>3</sup>.          TWA 8 hours: 50 ppm.          PEAK 15 minutes: 100 ppm.  <b>DFG MAC-values list (Germany, 7/2024)</b> Develop C. Absorbed through skin.          TWA 8 hours: 50 ppm.          PEAK 15 minutes: 100 ppm 4 times per shift [Interval: 1 hour].          TWA 8 hours: 190 mg/m<sup>3</sup>.          PEAK 15 minutes: 380 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour].</p>
Xylene	<p><b>TRGS 900 OEL (Germany, 6/2024) [Xylo]</b> Absorbed through skin.          TWA 8 hours: 220 mg/m<sup>3</sup>.          PEAK 15 minutes: 440 mg/m<sup>3</sup>.          TWA 8 hours: 50 ppm.          PEAK 15 minutes: 100 ppm.  <b>DFG MAC-values list (Germany, 7/2024) [Xylene]</b> Develop D. Absorbed through skin.          TWA 8 hours: 50 ppm.          PEAK 15 minutes: 100 ppm 4 times per shift [Interval: 1 hour].          TWA 8 hours: 220 mg/m<sup>3</sup>.          PEAK 15 minutes: 440 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour].</p>
2-Methoxy-1-methylethyl acetate	<p><b>TRGS 900 OEL (Germany, 6/2024)</b>          TWA 8 hours: 270 mg/m<sup>3</sup>.          PEAK 15 minutes: 270 mg/m<sup>3</sup>.          TWA 8 hours: 50 ppm.          PEAK 15 minutes: 50 ppm.  <b>DFG MAC-values list (Germany, 7/2024)</b> Develop C.          TWA 8 hours: 50 ppm.          PEAK 15 minutes: 50 ppm 4 times per shift [Interval: 1 hour].          TWA 8 hours: 270 mg/m<sup>3</sup>.          PEAK 15 minutes: 270 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour].</p>
Propan-2-ol	<p><b>TRGS 900 OEL (Germany, 6/2024)</b>          TWA 8 hours: 500 mg/m<sup>3</sup>.</p>

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Ethylbenzene	<p>PEAK 15 minutes: 1000 mg/m<sup>3</sup>.  TWA 8 hours: 200 ppm.  PEAK 15 minutes: 400 ppm.  <b>DFG MAC-values list (Germany, 7/2024)</b> Develop C.  TWA 8 hours: 200 ppm.  PEAK 15 minutes: 400 ppm 4 times per shift [Interval: 1 hour].  TWA 8 hours: 500 mg/m<sup>3</sup>.  PEAK 15 minutes: 1000 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour].</p> <p><b>TRGS 900 OEL (Germany, 6/2024)</b> Absorbed through skin.  TWA 8 hours: 88 mg/m<sup>3</sup>.  PEAK 15 minutes: 176 mg/m<sup>3</sup>.  TWA 8 hours: 20 ppm.  PEAK 15 minutes: 40 ppm.  <b>DFG MAC-values list (Germany, 7/2024)</b> Carc 4, Develop C.  Absorbed through skin.  PEAK 15 minutes: 40 ppm 4 times per shift [Interval: 1 hour].  PEAK 15 minutes: 176 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour].  TWA 8 hours: 88 mg/m<sup>3</sup>.  TWA 8 hours: 20 ppm.</p>
Maleic anhydride	<p><b>TRGS 900 OEL (Germany, 6/2024)</b> Inhalation sensitiser , Skin sensitiser.  TWA 8 hours: 0.081 mg/m<sup>3</sup>.  CEIL: 0.2025 mg/m<sup>3</sup>.  TWA 8 hours: 0.02 ppm.  CEIL: 0.05 ppm.  PEAK 15 minutes: 0.081 mg/m<sup>3</sup>.  PEAK 15 minutes: 0.02 ppm.  <b>DFG MAC-values list (Germany, 7/2024)</b> Develop C. Inhalation sensitiser , Skin sensitiser.  TWA 8 hours: 0.02 ppm.  CEIL: 0.05 ml/m<sup>3</sup>.  TWA 8 hours: 0.081 mg/m<sup>3</sup>.  CEIL: 0.2 mg/m<sup>3</sup>.  PEAK 15 minutes: 0.081 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour].  PEAK 15 minutes: 0.02 ppm 4 times per shift [Interval: 1 hour].</p>
n-Butyl acetate	<p><b>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024)</b>  TWA 8 hours: 50 ppm.  TWA 8 hours: 241 mg/m<sup>3</sup>.  STEL 15 minutes: 150 ppm.  STEL 15 minutes: 723 mg/m<sup>3</sup>.</p>
Ethyl acetate	<p><b>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024)</b>  TWA 8 hours: 200 ppm.  TWA 8 hours: 734 mg/m<sup>3</sup>.  STEL 15 minutes: 1468 mg/m<sup>3</sup>.  STEL 15 minutes: 400 ppm.</p>
Toluene	<p><b>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024)</b> Absorbed through skin.  TWA 8 hours: 50 ppm.  TWA 8 hours: 192 mg/m<sup>3</sup>.  STEL 15 minutes: 100 ppm.  STEL 15 minutes: 384 mg/m<sup>3</sup>.</p>
Xylene	<p><b>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024)</b> [ξυλόλια (όλα τα ισομερή)] Absorbed through skin.  TWA 8 hours: 100 ppm.  TWA 8 hours: 435 mg/m<sup>3</sup>.  STEL 15 minutes: 150 ppm.  STEL 15 minutes: 650 mg/m<sup>3</sup>.</p>
2-Methoxy-1-methylethyl acetate	<p><b>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024)</b> Absorbed through skin.  TWA 8 hours: 50 ppm.</p>

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Propan-2-ol	<p>TWA 8 hours: 275 mg/m<sup>3</sup>.                      STEL 15 minutes: 100 ppm.                      STEL 15 minutes: 550 mg/m<sup>3</sup>.</p> <p><b>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024)</b>                      TWA 8 hours: 400 ppm.                      TWA 8 hours: 980 mg/m<sup>3</sup>.                      STEL 15 minutes: 500 ppm.                      STEL 15 minutes: 1225 mg/m<sup>3</sup>.</p>
Ethylbenzene	<p><b>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024)</b>                      TWA 8 hours: 100 ppm.                      TWA 8 hours: 435 mg/m<sup>3</sup>.                      STEL 15 minutes: 125 ppm.                      STEL 15 minutes: 545 mg/m<sup>3</sup>.</p>
Maleic anhydride	<p><b>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024)</b>                      TWA 8 hours: 0.25 ppm.                      TWA 8 hours: 1 mg/m<sup>3</sup>.</p>
n-Butyl acetate	<p><b>5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) Sensitiser.</b>                      TWA 8 hours: 241 mg/m<sup>3</sup>.                      PEAK 15 minutes: 723 mg/m<sup>3</sup>.                      PEAK 15 minutes: 150 ppm.                      TWA 8 hours: 50 ppm.</p>
Ethyl acetate	<p><b>5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) Sensitiser.</b>                      TWA 8 hours: 734 mg/m<sup>3</sup>.                      PEAK 15 minutes: 1468 mg/m<sup>3</sup>.                      PEAK 15 minutes: 400 ppm.                      TWA 8 hours: 200 ppm.</p>
Toluene	<p><b>5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) Absorbed through skin.</b>                      TWA 8 hours: 192 mg/m<sup>3</sup>.                      PEAK 15 minutes: 384 mg/m<sup>3</sup>.                      PEAK 15 minutes: 100 ppm.                      TWA 8 hours: 50 ppm.</p>
Xylene	<p><b>5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) [xilol izomerek keveréke] Absorbed through skin.</b>                      TWA 8 hours: 221 mg/m<sup>3</sup>.                      PEAK 15 minutes: 442 mg/m<sup>3</sup>.                      PEAK 15 minutes: 100 ppm.                      TWA 8 hours: 50 ppm.</p>
2-Methoxy-1-methylethyl acetate	<p><b>5/2020. (II. 6.) ITM Decree (Hungary, 1/2025)</b>                      TWA 8 hours: 275 mg/m<sup>3</sup>.                      PEAK 15 minutes: 550 mg/m<sup>3</sup>.                      PEAK 15 minutes: 100 ppm.                      TWA 8 hours: 50 ppm.</p>
Propan-2-ol	<p><b>5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) Absorbed through skin.</b>                      TWA 8 hours: 500 mg/m<sup>3</sup>.                      PEAK 15 minutes: 1000 mg/m<sup>3</sup>.                      PEAK 15 minutes: 400 ppm.                      TWA 8 hours: 200 ppm.</p>
Ethylbenzene	<p><b>5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) Absorbed through skin.</b>                      TWA 8 hours: 442 mg/m<sup>3</sup>.                      PEAK 15 minutes: 884 mg/m<sup>3</sup>.                      PEAK 15 minutes: 200 ppm.                      TWA 8 hours: 100 ppm.</p>
Maleic anhydride	<p><b>5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) Sensitiser.</b>                      TWA 8 hours: 0.08 mg/m<sup>3</sup>.                      PEAK 15 minutes: 0.08 mg/m<sup>3</sup>.                      PEAK 15 minutes: 0.2 ppm.</p>

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	TWA 8 hours: 0.2 ppm.
n-Butyl acetate	<b>Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024) [bútýlasetat, allir ísómerar]</b> TWA 8 hours: 241 mg/m <sup>3</sup> . TWA 8 hours: 50 ppm. STEL 15 minutes: 723 mg/m <sup>3</sup> . STEL 15 minutes: 150 ppm.
Ethyl acetate	<b>Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024)</b> TWA 8 hours: 540 mg/m <sup>3</sup> . TWA 8 hours: 150 ppm.
Toluene	<b>Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024)</b> Absorbed through skin. STEL 15 minutes: 188 mg/m <sup>3</sup> . STEL 15 minutes: 50 ppm. TWA 8 hours: 94 mg/m <sup>3</sup> . TWA 8 hours: 25 ppm.
Xylene	<b>Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024) [Xýlen, allir ísómerar]</b> Absorbed through skin. STEL 15 minutes: 442 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm. TWA 8 hours: 109 mg/m <sup>3</sup> . TWA 8 hours: 25 ppm.
2-Methoxy-1-methylethyl acetate	<b>Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024)</b> Absorbed through skin. STEL 15 minutes: 550 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm. TWA 8 hours: 275 mg/m <sup>3</sup> . TWA 8 hours: 50 ppm.
Propan-2-ol	<b>Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024)</b> Absorbed through skin. TWA 8 hours: 490 mg/m <sup>3</sup> . TWA 8 hours: 200 ppm.
Ethylbenzene	<b>Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024)</b> Absorbed through skin. STEL 15 minutes: 884 mg/m <sup>3</sup> . STEL 15 minutes: 200 ppm. TWA 8 hours: 200 mg/m <sup>3</sup> . TWA 8 hours: 50 ppm.
Maleic anhydride	<b>Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024)</b> Sensitiser. TWA 8 hours: 0.4 mg/m <sup>3</sup> . TWA 8 hours: 0.1 ppm.
n-Butyl acetate	<b>NAOSH (Ireland, 4/2024)</b> Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 50 ppm. OELV 8 hours: 241 mg/m <sup>3</sup> . OELV 15 minutes: 150 ppm. OELV 15 minutes: 723 mg/m <sup>3</sup> .
Ethyl acetate	<b>NAOSH (Ireland, 4/2024)</b> Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 200 ppm. OELV 15 minutes: 400 ppm. OELV 15 minutes: 1468 mg/m <sup>3</sup> . OELV 8 hours: 734 mg/m <sup>3</sup> .
Toluene	<b>NAOSH (Ireland, 4/2024)</b> Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 50 ppm. OELV 8 hours: 192 mg/m <sup>3</sup> . OELV 15 minutes: 100 ppm. OELV 15 minutes: 384 mg/m <sup>3</sup> .
Xylene	<b>NAOSH (Ireland, 4/2024) [xylene]</b> Absorbed through skin. Notes:

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2-Methoxy-1-methylethyl acetate	<p>EU derived Occupational Exposure Limit Values            OELV 8 hours: 50 ppm.            OELV 8 hours: 221 mg/m<sup>3</sup>.            OELV 15 minutes: 100 ppm.            OELV 15 minutes: 442 mg/m<sup>3</sup>.</p> <p><b>NAOSH (Ireland, 4/2024)</b> Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values            OELV 8 hours: 50 ppm.            OELV 8 hours: 275 mg/m<sup>3</sup>.            OELV 15 minutes: 100 ppm.            OELV 15 minutes: 550 mg/m<sup>3</sup>.</p>
Propan-2-ol	<p><b>NAOSH (Ireland, 4/2024)</b> Absorbed through skin. Notes: Advisory Occupational Exposure Limit Values (OELVs)            OELV 8 hours: 200 ppm.            OELV 15 minutes: 400 ppm.</p>
Ethylbenzene	<p><b>NAOSH (Ireland, 4/2024)</b> Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values            OELV 8 hours: 100 ppm.            OELV 8 hours: 442 mg/m<sup>3</sup>.            OELV 15 minutes: 200 ppm.            OELV 15 minutes: 884 mg/m<sup>3</sup>.</p>
Maleic anhydride	<p><b>NAOSH (Ireland, 4/2024)</b> Sensitiser. Notes: Advisory Occupational Exposure Limit Values (OELVs)            OELV 8 hours: 0.01 ppm. Form: The Inhalable Fraction and Vapour note is used when a material exerts sufficient vapour pressure such that it may be present in both particle and vapour phases..</p>
n-Butyl acetate	<p><b>Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 9/2024)</b>            Short Term 15 minutes: 150 ppm.            Short Term 15 minutes: 723 mg/m<sup>3</sup>.            Limit value 8 hours: 50 ppm.            Limit value 8 hours: 241 mg/m<sup>3</sup>.</p>
Ethyl acetate	<p><b>Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 9/2024)</b>            Short Term 15 minutes: 400 ppm.            Short Term 15 minutes: 1468 mg/m<sup>3</sup>.            Limit value 8 hours: 200 ppm.            Limit value 8 hours: 734 mg/m<sup>3</sup>.</p>
Toluene	<p><b>Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 9/2024)</b>            Absorbed through skin.            Limit value 8 hours: 50 ppm.            Limit value 8 hours: 192 mg/m<sup>3</sup>.            Short Term 15 minutes: 100 ppm.            Short Term 15 minutes: 384 mg/m<sup>3</sup>.</p>
Xylene	<p><b>Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 9/2024)</b>  <b>[xilene, isomeri misti, puro]</b> Absorbed through skin.            Limit value 8 hours: 50 ppm.            Limit value 8 hours: 221 mg/m<sup>3</sup>.            Short Term 15 minutes: 100 ppm.            Short Term 15 minutes: 442 mg/m<sup>3</sup>.</p>
2-Methoxy-1-methylethyl acetate	<p><b>Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 9/2024)</b>            Absorbed through skin.            Limit value 8 hours: 50 ppm.            Limit value 8 hours: 275 mg/m<sup>3</sup>.            Short Term 15 minutes: 100 ppm.            Short Term 15 minutes: 550 mg/m<sup>3</sup>.</p>
Ethylbenzene	<p><b>Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 9/2024)</b>            Absorbed through skin.</p>

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n-Butyl acetate	<p>Limit value 8 hours: 100 ppm.            Limit value 8 hours: 442 mg/m<sup>3</sup>.            Short Term 15 minutes: 200 ppm.            Short Term 15 minutes: 884 mg/m<sup>3</sup>.</p> <p><b>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)</b>            TWA 8 hours: 241 mg/m<sup>3</sup>.            STEL 15 minutes: 150 ppm.            STEL 15 minutes: 723 mg/m<sup>3</sup>.            TWA 8 hours: 50 ppm.</p>
Ethyl acetate	<p><b>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)</b>            TWA 8 hours: 200 mg/m<sup>3</sup>.            STEL 15 minutes: 400 ppm.            STEL 15 minutes: 1468 mg/m<sup>3</sup>.            TWA 8 hours: 54 ppm.</p>
Toluene	<p><b>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)</b>            Absorbed through skin.            TWA 8 hours: 50 mg/m<sup>3</sup>.            STEL 15 minutes: 150 mg/m<sup>3</sup>.            TWA 8 hours: 14 ppm.            STEL 15 minutes: 40 ppm.</p>
Xylene	<p><b>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)</b>  <b>[Ksilols]</b> Absorbed through skin.            TWA 8 hours: 221 mg/m<sup>3</sup>.            TWA 8 hours: 50 ppm.            STEL 15 minutes: 100 ppm.            STEL 15 minutes: 442 mg/m<sup>3</sup>.</p>
2-Methoxy-1-methylethyl acetate	<p><b>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)</b>            Absorbed through skin.            TWA 8 hours: 50 ppm.            TWA 8 hours: 275 mg/m<sup>3</sup>.            STEL 15 minutes: 100 ppm.            STEL 15 minutes: 550 mg/m<sup>3</sup>.</p>
Propan-2-ol	<p><b>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)</b>            TWA 8 hours: 350 mg/m<sup>3</sup>.            STEL 15 minutes: 600 mg/m<sup>3</sup>.</p>
Ethylbenzene	<p><b>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)</b>            Absorbed through skin.            TWA 8 hours: 442 mg/m<sup>3</sup>.            TWA 8 hours: 100 ppm.            STEL 15 minutes: 200 ppm.            STEL 15 minutes: 884 mg/m<sup>3</sup>.</p>
Maleic anhydride	<p><b>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)</b>            TWA 8 hours: 1 mg/m<sup>3</sup>.</p>
n-Butyl acetate	<p><b>Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)</b>            TWA 8 hours: 241 mg/m<sup>3</sup>.            TWA 8 hours: 50 ppm.            STEL 15 minutes: 723 mg/m<sup>3</sup>.            STEL 15 minutes: 150 ppm.</p>
Ethyl acetate	<p><b>Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)</b>            TWA 8 hours: 500 mg/m<sup>3</sup>.            TWA 8 hours: 150 ppm.            CEIL: 1100 mg/m<sup>3</sup>.            CEIL: 300 ppm.</p>
Toluene	<p><b>Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) Repr.</b>            Absorbed through skin.            TWA 8 hours: 192 mg/m<sup>3</sup>.            TWA 8 hours: 50 ppm.            STEL 15 minutes: 384 mg/m<sup>3</sup>.            STEL 15 minutes: 100 ppm.</p>
Xylene	<p><b>Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)</b>  <b>[ksilenas, mišrūs izomerai, grynas]</b> Absorbed through skin.            STEL 15 minutes: 442 mg/m<sup>3</sup>.</p>

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2-Methoxy-1-methylethyl acetate	<p>TWA 8 hours: 50 ppm.                      STEL 15 minutes: 100 ppm.                      TWA 8 hours: 221 mg/m<sup>3</sup>.</p> <p><b>Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)</b>                      Absorbed through skin.                      TWA 8 hours: 250 mg/m<sup>3</sup>.                      TWA 8 hours: 50 ppm.                      STEL 15 minutes: 400 mg/m<sup>3</sup>.                      STEL 15 minutes: 75 ppm.</p>
Propan-2-ol	<p><b>Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)</b>                      TWA 8 hours: 350 mg/m<sup>3</sup>.                      TWA 8 hours: 150 ppm.                      STEL 15 minutes: 600 mg/m<sup>3</sup>.                      STEL 15 minutes: 250 ppm.</p>
Ethylbenzene	<p><b>Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)</b>                      Absorbed through skin.                      TWA 8 hours: 442 mg/m<sup>3</sup>.                      TWA 8 hours: 100 ppm.                      STEL 15 minutes: 884 mg/m<sup>3</sup>.                      STEL 15 minutes: 200 ppm.</p>
Maleic anhydride	<p><b>Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)</b>                      Sensitiser.                      TWA 8 hours: 1.2 mg/m<sup>3</sup>.                      TWA 8 hours: 0.3 ppm.                      STEL 15 minutes: 2.5 mg/m<sup>3</sup>.                      STEL 15 minutes: 0.6 ppm.</p>
n-Butyl acetate	<p><b>Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021)</b>                      STEL 15 minutes: 150 ppm.                      STEL 15 minutes: 723 mg/m<sup>3</sup>.                      TWA 8 hours: 50 ppm.                      TWA 8 hours: 241 mg/m<sup>3</sup>.</p>
Ethyl acetate	<p><b>Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021)</b>                      STEL 15 minutes: 400 ppm.                      STEL 15 minutes: 1468 mg/m<sup>3</sup>.                      TWA 8 hours: 200 ppm.                      TWA 8 hours: 734 mg/m<sup>3</sup>.</p>
Toluene	<p><b>Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021)</b> Absorbed through skin.                      STEL 15 minutes: 100 ppm.                      STEL 15 minutes: 384 mg/m<sup>3</sup>.                      TWA 8 hours: 50 ppm.                      TWA 8 hours: 192 mg/m<sup>3</sup>.</p>
Xylene	<p><b>Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) [xylène Isomères mixtes, pures]</b>                      Absorbed through skin.                      TWA 8 hours: 50 ppm.                      TWA 8 hours: 221 mg/m<sup>3</sup>.                      STEL 15 minutes: 100 ppm.                      STEL 15 minutes: 442 mg/m<sup>3</sup>.</p>
2-Methoxy-1-methylethyl acetate	<p><b>Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021)</b> Absorbed through skin.                      TWA 8 hours: 50 ppm.                      TWA 8 hours: 275 mg/m<sup>3</sup>.                      STEL 15 minutes: 100 ppm.                      STEL 15 minutes: 550 mg/m<sup>3</sup>.</p>
Ethylbenzene	<p><b>Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021)</b> Absorbed through skin.                      TWA 8 hours: 100 ppm.                      TWA 8 hours: 442 mg/m<sup>3</sup>.                      STEL 15 minutes: 200 ppm.                      STEL 15 minutes: 884 mg/m<sup>3</sup>.</p>

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n-Butyl acetate	<p><b>EU OEL (Europe, 1/2022)</b>            STEL 15 minutes: 150 ppm.            STEL 15 minutes: 723 mg/m<sup>3</sup>.            TWA 8 hours: 241 mg/m<sup>3</sup>.            TWA 8 hours: 50 ppm.</p>
Ethyl acetate	<p><b>EU OEL (Europe, 1/2022)</b>            STEL 15 minutes: 400 ppm.            STEL 15 minutes: 1468 mg/m<sup>3</sup>.            TWA 8 hours: 200 ppm.            TWA 8 hours: 734 mg/m<sup>3</sup>.</p>
Toluene	<p><b>EU OEL (Europe, 1/2022)</b> Absorbed through skin.            TWA 8 hours: 192 mg/m<sup>3</sup>.            TWA 8 hours: 50 ppm.            STEL 15 minutes: 384 mg/m<sup>3</sup>.            STEL 15 minutes: 100 ppm.</p>
Xylene	<p><b>EU OEL (Europe, 1/2022) [xylene, mixed isomers]</b> Absorbed through skin.            TWA 8 hours: 50 ppm.            TWA 8 hours: 221 mg/m<sup>3</sup>.            STEL 15 minutes: 100 ppm.            STEL 15 minutes: 442 mg/m<sup>3</sup>.</p>
2-Methoxy-1-methylethyl acetate	<p><b>EU OEL (Europe, 1/2022)</b> Absorbed through skin.            TWA 8 hours: 50 ppm.            TWA 8 hours: 275 mg/m<sup>3</sup>.            STEL 15 minutes: 100 ppm.            STEL 15 minutes: 550 mg/m<sup>3</sup>.</p>
Ethylbenzene	<p><b>EU OEL (Europe, 1/2022)</b> Absorbed through skin.            TWA 8 hours: 100 ppm.            TWA 8 hours: 442 mg/m<sup>3</sup>.            STEL 15 minutes: 200 ppm.            STEL 15 minutes: 884 mg/m<sup>3</sup>.</p>
n-Butyl acetate	<p><b>Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024)</b>            TWA 8 hours: 241 mg/m<sup>3</sup>.            STEL 15 minutes: 723 mg/m<sup>3</sup>.            STEL 15 minutes: 150 ppm.            TWA 8 hours: 50 ppm.</p>
Ethyl acetate	<p><b>Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024)</b>            STEL 15 minutes: 1468 mg/m<sup>3</sup>.            TWA 8 hours: 734 mg/m<sup>3</sup>.            STEL 15 minutes: 400 ppm.            TWA 8 hours: 200 ppm.</p>
Toluene	<p><b>Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024)</b>            TWA 8 hours: 150 mg/m<sup>3</sup>.            STEL 15 minutes: 384 mg/m<sup>3</sup>.            STEL 15 minutes: 100 ppm.            TWA 8 hours: 39 ppm.</p>
Xylene	<p><b>Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) [xyleen, o-, m-, p-isomeren]</b> Absorbed through skin.            TWA 8 hours: 210 mg/m<sup>3</sup>.            STEL 15 minutes: 442 mg/m<sup>3</sup>.            STEL 15 minutes: 100 ppm.            TWA 8 hours: 47.5 ppm.</p>
2-Methoxy-1-methylethyl acetate	<p><b>Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024)</b>            TWA 8 hours: 550 mg/m<sup>3</sup>.            TWA 8 hours: 100 ppm.</p>
Ethylbenzene	<p><b>Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024)</b> Absorbed through skin.</p>

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n-Butyl acetate	<p>TWA 8 hours: 215 mg/m<sup>3</sup>.                      STEL 15 minutes: 430 mg/m<sup>3</sup>.                      STEL 15 minutes: 97.3 ppm.                      TWA 8 hours: 48.6 ppm.</p> <p><b>FOR-2011-12-06-1358 (Norway, 5/2024)</b>                      STEL 15 minutes: 723 mg/m<sup>3</sup>.                      STEL 15 minutes: 150 ppm.                      TWA 8 hours: 241 mg/m<sup>3</sup>.                      TWA 8 hours: 50 ppm.</p>
Ethyl acetate	<p><b>FOR-2011-12-06-1358 (Norway, 5/2024)</b>                      TWA 8 hours: 200 ppm.                      TWA 8 hours: 734 mg/m<sup>3</sup>.                      STEL 15 minutes: 1468 mg/m<sup>3</sup>.                      STEL 15 minutes: 400 ppm.</p>
Toluene	<p><b>FOR-2011-12-06-1358 (Norway, 5/2024)</b> Absorbed through skin.                      TWA 8 hours: 25 ppm.                      TWA 8 hours: 94 mg/m<sup>3</sup>.</p>
Xylene	<p><b>FOR-2011-12-06-1358 (Norway, 5/2024) [xylene]</b> Absorbed through skin.                      TWA 8 hours: 25 ppm.                      TWA 8 hours: 108 mg/m<sup>3</sup>.</p>
2-Methoxy-1-methylethyl acetate	<p><b>FOR-2011-12-06-1358 (Norway, 5/2024)</b> Absorbed through skin.                      TWA 8 hours: 50 ppm.                      TWA 8 hours: 270 mg/m<sup>3</sup>.</p>
Propan-2-ol	<p><b>FOR-2011-12-06-1358 (Norway, 5/2024)</b>                      TWA 8 hours: 100 ppm.                      TWA 8 hours: 245 mg/m<sup>3</sup>.</p>
Ethylbenzene	<p><b>FOR-2011-12-06-1358 (Norway, 5/2024)</b> Carc. Absorbed through skin.                      TWA 8 hours: 5 ppm.                      TWA 8 hours: 20 mg/m<sup>3</sup>.</p>
Maleic anhydride	<p><b>FOR-2011-12-06-1358 (Norway, 5/2024)</b> Sensitiser.                      TWA 8 hours: 0.2 ppm.                      TWA 8 hours: 0.8 mg/m<sup>3</sup>.</p>
n-Butyl acetate	<p><b>Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 7/2024)</b>                      TWA 8 hours: 240 mg/m<sup>3</sup>.                      STEL 15 minutes: 720 mg/m<sup>3</sup>.</p>
Ethyl acetate	<p><b>Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 7/2024)</b>                      TWA 8 hours: 734 mg/m<sup>3</sup>.                      STEL 15 minutes: 1468 mg/m<sup>3</sup>.                      STEL 15 minutes: 400 ppm.                      TWA 8 hours: 200 ppm.</p>
Toluene	<p><b>Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 7/2024)</b> Absorbed through skin.                      TWA 8 hours: 100 mg/m<sup>3</sup>.                      STEL 15 minutes: 200 mg/m<sup>3</sup>.</p>
Xylene	<p><b>Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 7/2024) [xylene – mixed isomers (1,2-, 1,3-, 1,4-)]</b> Absorbed</p>

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2-Methoxy-1-methylethyl acetate	<p>through skin. TWA 8 hours: 100 mg/m<sup>3</sup>. STEL 15 minutes: 200 mg/m<sup>3</sup>.</p> <p><b>Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 7/2024)</b> Absorbed through skin. TWA 8 hours: 260 mg/m<sup>3</sup>. STEL 15 minutes: 520 mg/m<sup>3</sup>.</p>
Propan-2-ol	<p><b>Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 7/2024)</b> Absorbed through skin. TWA 8 hours: 900 mg/m<sup>3</sup>. STEL 15 minutes: 1200 mg/m<sup>3</sup>.</p>
Ethylbenzene	<p><b>Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 7/2024)</b> Absorbed through skin. TWA 8 hours: 200 mg/m<sup>3</sup>. STEL 15 minutes: 400 mg/m<sup>3</sup>.</p>
Maleic anhydride	<p><b>Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 7/2024)</b> Absorbed through skin. TWA 8 hours: 0.5 mg/m<sup>3</sup>. STEL 15 minutes: 1 mg/m<sup>3</sup>.</p>
n-Butyl acetate	<p><b>Portuguese Institute of Quality (Portugal, 11/2014)</b> TWA 8 hours: 150 ppm. STEL 15 minutes: 200 ppm. <b>Decree-Law 24/2012 - Occupational exposure limits for chemical agents (Portugal, 6/2021)</b> STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m<sup>3</sup>. TWA 8 hours: 50 ppm. TWA 8 hours: 241 mg/m<sup>3</sup>.</p>
Ethyl acetate	<p><b>Portuguese Institute of Quality (Portugal, 11/2014)</b> TWA 8 hours: 400 ppm. <b>Decree-Law 24/2012 - Occupational exposure limits for chemical agents (Portugal, 6/2021)</b> STEL 15 minutes: 400 ppm. STEL 15 minutes: 1468 mg/m<sup>3</sup>. TWA 8 hours: 200 ppm. TWA 8 hours: 734 mg/m<sup>3</sup>.</p>
Toluene	<p><b>Portuguese Institute of Quality (Portugal, 11/2014) A4.</b> TWA 8 hours: 20 ppm. <b>Decree-Law 24/2012 - Occupational exposure limits for chemical agents (Portugal, 6/2021)</b> Absorbed through skin. STEL 15 minutes: 100 ppm. STEL 15 minutes: 384 mg/m<sup>3</sup>. TWA 8 hours: 50 ppm. TWA 8 hours: 192 mg/m<sup>3</sup>.</p>
Xylene	<p><b>Portuguese Institute of Quality (Portugal, 11/2014) [xileno (isómeros o, m &amp; p)] A4.</b> TWA 8 hours: 100 ppm. STEL 15 minutes: 150 ppm. <b>Decree-Law 24/2012 - Occupational exposure limits for chemical agents (Portugal, 6/2021) [xilenos]</b> Absorbed through skin.</p>

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2-Methoxy-1-methylethyl acetate	<p>STEL 15 minutes: 100 ppm.          STEL 15 minutes: 442 mg/m<sup>3</sup>.          TWA 8 hours: 50 ppm.          TWA 8 hours: 221 mg/m<sup>3</sup>.</p> <p><b>Decree-Law 24/2012 - Occupational exposure limits for chemical agents (Portugal, 6/2021)</b> Absorbed through skin.          STEL 15 minutes: 100 ppm.          STEL 15 minutes: 550 mg/m<sup>3</sup>.          TWA 8 hours: 50 ppm.          TWA 8 hours: 275 mg/m<sup>3</sup>.</p>
Propan-2-ol	<p><b>Portuguese Institute of Quality (Portugal, 11/2014) A4.</b>          TWA 8 hours: 200 ppm.          STEL 15 minutes: 400 ppm.</p>
Ethylbenzene	<p><b>Portuguese Institute of Quality (Portugal, 11/2014) A3.</b>          TWA 8 hours: 20 ppm.</p> <p><b>Decree-Law 24/2012 - Occupational exposure limits for chemical agents (Portugal, 6/2021)</b> Absorbed through skin.          STEL 15 minutes: 200 ppm.          STEL 15 minutes: 884 mg/m<sup>3</sup>.          TWA 8 hours: 100 ppm.          TWA 8 hours: 442 mg/m<sup>3</sup>.</p>
Maleic anhydride	<p><b>Portuguese Institute of Quality (Portugal, 11/2014) A4.</b>          TWA 8 hours: 0.01 mg/m<sup>3</sup>. Form: Inhalable fraction and vapor.</p>
n-Butyl acetate	<p><b>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024)</b>          VLA 8 hours: 241 mg/m<sup>3</sup>.          VLA 8 hours: 50 ppm.          Short term 15 minutes: 723 mg/m<sup>3</sup>.          Short term 15 minutes: 150 ppm.</p>
Ethyl acetate	<p><b>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024)</b>          VLA 8 hours: 734 mg/m<sup>3</sup>.          VLA 8 hours: 200 ppm.          Short term 15 minutes: 1468 mg/m<sup>3</sup>.          Short term 15 minutes: 400 ppm.</p>
Toluene	<p><b>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) R2.</b> Absorbed through skin.          VLA 8 hours: 192 mg/m<sup>3</sup>.          VLA 8 hours: 50 ppm.          Short term 15 minutes: 384 mg/m<sup>3</sup>.          Short term 15 minutes: 100 ppm.</p>
Xylene	<p><b>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) [xilen]</b> Absorbed through skin.          VLA 8 hours: 221 mg/m<sup>3</sup>.          VLA 8 hours: 50 ppm.          Short term 15 minutes: 442 mg/m<sup>3</sup>.          Short term 15 minutes: 100 ppm.</p>
2-Methoxy-1-methylethyl acetate	<p><b>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024)</b> Absorbed through skin.          VLA 8 hours: 275 mg/m<sup>3</sup>.          VLA 8 hours: 50 ppm.          Short term 15 minutes: 550 mg/m<sup>3</sup>.          Short term 15 minutes: 100 ppm.</p>
Propan-2-ol	<p><b>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024)</b>          VLA 8 hours: 200 mg/m<sup>3</sup>.          VLA 8 hours: 81 ppm.          Short term 15 minutes: 500 mg/m<sup>3</sup>.          Short term 15 minutes: 203 ppm.</p>
Ethylbenzene	<p><b>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024)</b> Absorbed through skin.          VLA 8 hours: 442 mg/m<sup>3</sup>.          VLA 8 hours: 100 ppm.</p>

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Maleic anhydride	<p>Short term 15 minutes: 884 mg/m<sup>3</sup>.  Short term 15 minutes: 200 ppm.  <b>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024)</b>  VLA 8 hours: 1 mg/m<sup>3</sup>.  VLA 8 hours: 0.25 ppm.  Short term 15 minutes: 3 mg/m<sup>3</sup>.  Short term 15 minutes: 0.75 ppm.</p>
n-Butyl acetate	<p><b>Government regulation SR c. 355/2006 (Slovakia, 6/2024)</b>  <b>[butylacetáty]</b> Inhalation sensitiser.  TWA 8 hours: 241 mg/m<sup>3</sup> (Butyl acetates).  TWA 8 hours: 50 ppm (Butyl acetates).  STEL 15 minutes: 723 mg/m<sup>3</sup> (Butyl acetates).  STEL 15 minutes: 150 ppm (Butyl acetates).</p>
Ethyl acetate	<p><b>Government regulation SR c. 355/2006 (Slovakia, 6/2024)</b>  Inhalation sensitiser.  TWA 8 hours: 734 mg/m<sup>3</sup>.  TWA 8 hours: 200 ppm.  STEL 15 minutes: 1468 mg/m<sup>3</sup>.  STEL 15 minutes: 400 ppm.</p>
Toluene	<p><b>Government regulation SR c. 355/2006 (Slovakia, 6/2024)</b>  Absorbed through skin , Inhalation sensitiser.  TWA 8 hours: 192 mg/m<sup>3</sup>.  TWA 8 hours: 50 ppm.  STEL 15 minutes: 384 mg/m<sup>3</sup>.  STEL 15 minutes: 100 ppm.</p>
Xylene	<p><b>Government regulation SR c. 355/2006 (Slovakia, 6/2024)</b>  <b>[xylén, zmiešané izoméry]</b> Absorbed through skin , Inhalation sensitiser.  TWA 8 hours: 221 mg/m<sup>3</sup> (xylene, mixed isomers).  TWA 8 hours: 50 ppm (xylene, mixed isomers).  STEL 15 minutes: 442 mg/m<sup>3</sup> (xylene, mixed isomers).  STEL 15 minutes: 100 ppm (xylene, mixed isomers).</p>
2-Methoxy-1-methylethyl acetate	<p><b>Government regulation SR c. 355/2006 (Slovakia, 6/2024)</b>  Absorbed through skin , Inhalation sensitiser.  TWA 8 hours: 275 mg/m<sup>3</sup>.  TWA 8 hours: 50 ppm.  STEL 15 minutes: 550 mg/m<sup>3</sup>.  STEL 15 minutes: 100 ppm.</p>
Propan-2-ol	<p><b>Government regulation SR c. 355/2006 (Slovakia, 6/2024)</b>  Inhalation sensitiser.  TWA 8 hours: 500 mg/m<sup>3</sup>.  TWA 8 hours: 200 ppm.  STEL 15 minutes: 1000 mg/m<sup>3</sup>.  STEL 15 minutes: 400 ppm.</p>
Ethylbenzene	<p><b>Government regulation SR c. 355/2006 (Slovakia, 6/2024)</b>  Absorbed through skin , Inhalation sensitiser.  TWA 8 hours: 442 mg/m<sup>3</sup>.  TWA 8 hours: 100 ppm.  STEL 15 minutes: 884 mg/m<sup>3</sup>.  STEL 15 minutes: 200 ppm.</p>
Maleic anhydride	<p><b>Government regulation SR c. 355/2006 (Slovakia, 6/2024)</b>  Sensitiser , Inhalation sensitiser.  TWA 8 hours: 0.41 mg/m<sup>3</sup>.  TWA 8 hours: 0.1 ppm.</p>
n-Butyl acetate	<p><b>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)</b>  TWA 8 hours: 241 mg/m<sup>3</sup>.  TWA 8 hours: 50 ppm.  KTV 15 minutes: 723 mg/m<sup>3</sup> 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].  KTV 15 minutes: 150 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].</p>

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Ethyl acetate

### Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)

TWA 8 hours: 734 mg/m<sup>3</sup>.

TWA 8 hours: 200 ppm.

KTV 15 minutes: 1468 mg/m<sup>3</sup> 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

KTV 15 minutes: 400 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

Toluene

### Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)

Repr Dev 2. Absorbed through skin.

TWA 8 hours: 192 mg/m<sup>3</sup>.

TWA 8 hours: 50 ppm.

KTV 15 minutes: 384 mg/m<sup>3</sup> 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

KTV 15 minutes: 100 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

Xylene

### Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)

[ksilen] Absorbed through skin.

TWA 8 hours: 221 mg/m<sup>3</sup>.

TWA 8 hours: 50 ppm.

KTV 15 minutes: 442 mg/m<sup>3</sup> 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

KTV 15 minutes: 100 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

2-Methoxy-1-methylethyl acetate

### Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)

Absorbed through skin.

TWA 8 hours: 275 mg/m<sup>3</sup>.

TWA 8 hours: 50 ppm.

KTV 15 minutes: 550 mg/m<sup>3</sup> 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

KTV 15 minutes: 100 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

Propan-2-ol

### Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)

TWA 8 hours: 500 mg/m<sup>3</sup>.

TWA 8 hours: 200 ppm.

KTV 15 minutes: 1000 mg/m<sup>3</sup> 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

KTV 15 minutes: 400 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

Ethylbenzene

### Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)

Absorbed through skin.

TWA 8 hours: 442 mg/m<sup>3</sup>.

TWA 8 hours: 100 ppm.

KTV 15 minutes: 884 mg/m<sup>3</sup> 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

KTV 15 minutes: 200 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

Maleic anhydride

### Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)

TWA 8 hours: 0.41 mg/m<sup>3</sup>.

TWA 8 hours: 0.1 ppm.

KTV 15 minutes: 0.41 mg/m<sup>3</sup> 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

KTV 15 minutes: 0.1 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

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n-Butyl acetate	<p><b>National institute of occupational safety and health (Spain, 1/2024)</b>  TWA 8 hours: 50 ppm.  TWA 8 hours: 241 mg/m<sup>3</sup>.  STEL 15 minutes: 150 ppm.  STEL 15 minutes: 723 mg/m<sup>3</sup>.</p>
Ethyl acetate	<p><b>National institute of occupational safety and health (Spain, 1/2024)</b>  TWA 8 hours: 200 ppm.  TWA 8 hours: 734 mg/m<sup>3</sup>.  STEL 15 minutes: 1468 mg/m<sup>3</sup>.  STEL 15 minutes: 400 ppm.</p>
Toluene	<p><b>National institute of occupational safety and health (Spain, 1/2024)</b> Absorbed through skin.  TWA 8 hours: 50 ppm.  TWA 8 hours: 192 mg/m<sup>3</sup>.  STEL 15 minutes: 100 ppm.  STEL 15 minutes: 384 mg/m<sup>3</sup>.</p>
Xylene	<p><b>National institute of occupational safety and health (Spain, 1/2024)</b> [xileno, mezcla isómeros] Absorbed through skin.  TWA 8 hours: 50 ppm.  TWA 8 hours: 221 mg/m<sup>3</sup>.  STEL 15 minutes: 100 ppm.  STEL 15 minutes: 442 mg/m<sup>3</sup>.</p>
2-Methoxy-1-methylethyl acetate	<p><b>National institute of occupational safety and health (Spain, 1/2024)</b> Absorbed through skin.  TWA 8 hours: 50 ppm.  TWA 8 hours: 275 mg/m<sup>3</sup>.  STEL 15 minutes: 100 ppm.  STEL 15 minutes: 550 mg/m<sup>3</sup>.</p>
Propan-2-ol	<p><b>National institute of occupational safety and health (Spain, 1/2024)</b>  TWA 8 hours: 200 ppm.  TWA 8 hours: 500 mg/m<sup>3</sup>.  STEL 15 minutes: 400 ppm.  STEL 15 minutes: 1000 mg/m<sup>3</sup>.</p>
Ethylbenzene	<p><b>National institute of occupational safety and health (Spain, 1/2024)</b> Absorbed through skin.  TWA 8 hours: 100 ppm.  TWA 8 hours: 441 mg/m<sup>3</sup>.  STEL 15 minutes: 200 ppm.  STEL 15 minutes: 884 mg/m<sup>3</sup>.</p>
Maleic anhydride	<p><b>National institute of occupational safety and health (Spain, 1/2024)</b> Inhalation sensitiser , Skin sensitiser.  TWA 8 hours: 0.1 ppm.  TWA 8 hours: 0.4 mg/m<sup>3</sup>.</p>
n-Butyl acetate	<p><b>Work environment authority Regulation 2018:1 (Sweden, 11/2022)</b> [butyl acetate]  TWA 8 hours: 50 ppm.  TWA 8 hours: 241 mg/m<sup>3</sup>.  STEL 15 minutes: 150 ppm.  STEL 15 minutes: 723 mg/m<sup>3</sup>.</p>
Ethyl acetate	<p><b>Work environment authority Regulation 2018:1 (Sweden, 11/2022)</b>  TWA 8 hours: 150 ppm.  TWA 8 hours: 550 mg/m<sup>3</sup>.  STEL 15 minutes: 300 ppm.  STEL 15 minutes: 1100 mg/m<sup>3</sup>.</p>
Toluene	<p><b>Work environment authority Regulation 2018:1 (Sweden, 11/2022)</b> Absorbed through skin , Ototoxicant.  TWA 8 hours: 50 ppm.  TWA 8 hours: 192 mg/m<sup>3</sup>.  STEL 15 minutes: 100 ppm.</p>

## SECTION 8: Exposure controls/personal protection

Xylene	<p>STEL 15 minutes: 384 mg/m<sup>3</sup>.</p> <p><b>Work environment authority Regulation 2018:1 (Sweden, 11/2022) [xylene]</b> Absorbed through skin.</p> <p>TWA 8 hours: 50 ppm.</p> <p>TWA 8 hours: 221 mg/m<sup>3</sup>.</p> <p>STEL 15 minutes: 100 ppm.</p> <p>STEL 15 minutes: 442 mg/m<sup>3</sup>.</p>
2-Methoxy-1-methylethyl acetate	<p><b>Work environment authority Regulation 2018:1 (Sweden, 11/2022)</b> Absorbed through skin.</p> <p>TWA 8 hours: 50 ppm.</p> <p>TWA 8 hours: 275 mg/m<sup>3</sup>.</p> <p>STEL 15 minutes: 100 ppm.</p> <p>STEL 15 minutes: 550 mg/m<sup>3</sup>.</p>
Propan-2-ol	<p><b>Work environment authority Regulation 2018:1 (Sweden, 11/2022)</b></p> <p>TWA 8 hours: 150 ppm.</p> <p>TWA 8 hours: 350 mg/m<sup>3</sup>.</p> <p>STEL 15 minutes: 250 ppm.</p> <p>STEL 15 minutes: 600 mg/m<sup>3</sup>.</p>
Ethylbenzene	<p><b>Work environment authority Regulation 2018:1 (Sweden, 11/2022)</b> Absorbed through skin.</p> <p>TWA 8 hours: 50 ppm.</p> <p>TWA 8 hours: 220 mg/m<sup>3</sup>.</p> <p>STEL 15 minutes: 200 ppm.</p> <p>STEL 15 minutes: 884 mg/m<sup>3</sup>.</p>
Maleic anhydride	<p><b>Work environment authority Regulation 2018:1 (Sweden, 11/2022)</b> Sensitiser.</p> <p>TWA 8 hours: 0.05 ppm.</p> <p>TWA 8 hours: 0.2 mg/m<sup>3</sup>.</p> <p>STEL 15 minutes: 0.1 ppm.</p> <p>STEL 15 minutes: 0.4 mg/m<sup>3</sup>.</p>
n-Butyl acetate	<p><b>SUVA (Switzerland, 1/2025)</b></p> <p>TWA 8 hours: 50 ppm.</p> <p>TWA 8 hours: 240 mg/m<sup>3</sup>.</p> <p>STEL 15 minutes: 150 ppm.</p> <p>STEL 15 minutes: 720 mg/m<sup>3</sup>.</p>
Ethyl acetate	<p><b>SUVA (Switzerland, 1/2025)</b></p> <p>STEL 15 minutes: 400 ppm.</p> <p>STEL 15 minutes: 1460 mg/m<sup>3</sup>.</p> <p>TWA 8 hours: 200 ppm.</p> <p>TWA 8 hours: 730 mg/m<sup>3</sup>.</p>
Toluene	<p><b>SUVA (Switzerland, 1/2025)</b> Develop 2. Absorbed through skin , Ototoxicant.</p> <p>TWA 8 hours: 50 ppm.</p> <p>TWA 8 hours: 190 mg/m<sup>3</sup>.</p> <p>STEL 15 minutes: 200 ppm.</p> <p>STEL 15 minutes: 760 mg/m<sup>3</sup>.</p>
Xylene	<p><b>SUVA (Switzerland, 1/2025) [Xylo]</b> Absorbed through skin.</p> <p>TWA 8 hours: 50 ppm.</p> <p>TWA 8 hours: 220 mg/m<sup>3</sup>.</p> <p>STEL 15 minutes: 100 ppm.</p> <p>STEL 15 minutes: 440 mg/m<sup>3</sup>.</p>
2-Methoxy-1-methylethyl acetate	<p><b>SUVA (Switzerland, 1/2025)</b></p> <p>TWA 8 hours: 50 ppm.</p> <p>TWA 8 hours: 275 mg/m<sup>3</sup>.</p> <p>STEL 15 minutes: 50 ppm.</p> <p>STEL 15 minutes: 275 mg/m<sup>3</sup>.</p>
Propan-2-ol	<p><b>SUVA (Switzerland, 1/2025)</b></p> <p>TWA 8 hours: 200 ppm.</p> <p>TWA 8 hours: 500 mg/m<sup>3</sup>.</p> <p>STEL 15 minutes: 400 ppm.</p> <p>STEL 15 minutes: 1000 mg/m<sup>3</sup>.</p>
Ethylbenzene	

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Maleic anhydride	<p><b>SUVA (Switzerland, 1/2025)</b> Absorbed through skin , Ototoxicant.  TWA 8 hours: 50 ppm.  TWA 8 hours: 220 mg/m<sup>3</sup>.  STEL 15 minutes: 50 ppm.  STEL 15 minutes: 220 mg/m<sup>3</sup>.</p> <p><b>SUVA (Switzerland, 1/2025)</b> Sensitiser.  TWA 8 hours: 0.1 ppm. Form: vapour and aerosols.  TWA 8 hours: 0.4 mg/m<sup>3</sup>. Form: vapour and aerosols.  STEL 15 minutes: 0.1 ppm. Form: vapour and aerosols.  STEL 15 minutes: 0.4 mg/m<sup>3</sup>. Form: vapour and aerosols.</p>
n-Butyl acetate	<p><b>EH40/2005 WELs (United Kingdom (UK), 1/2020)</b>  STEL 15 minutes: 966 mg/m<sup>3</sup>.  STEL 15 minutes: 200 ppm.  TWA 8 hours: 724 mg/m<sup>3</sup>.  TWA 8 hours: 150 ppm.</p>
Ethyl acetate	<p><b>EH40/2005 WELs (United Kingdom (UK), 1/2020)</b>  STEL 15 minutes: 400 ppm.  TWA 8 hours: 200 ppm.  STEL 15 minutes: 1468 mg/m<sup>3</sup>.  TWA 8 hours: 734 mg/m<sup>3</sup>.</p>
Toluene	<p><b>EH40/2005 WELs (United Kingdom (UK), 1/2020)</b> Absorbed through skin.  STEL 15 minutes: 384 mg/m<sup>3</sup>.  TWA 8 hours: 191 mg/m<sup>3</sup>.  TWA 8 hours: 50 ppm.  STEL 15 minutes: 100 ppm.</p>
Xylene	<p><b>EH40/2005 WELs (United Kingdom (UK), 1/2020) [xylene, o-,m-, p- or mixed isomers]</b> Absorbed through skin.  STEL 15 minutes: 441 mg/m<sup>3</sup>.  TWA 8 hours: 50 ppm.  TWA 8 hours: 220 mg/m<sup>3</sup>.  STEL 15 minutes: 100 ppm.</p>
Propan-2-ol	<p><b>EH40/2005 WELs (United Kingdom (UK), 1/2020)</b>  STEL 15 minutes: 1250 mg/m<sup>3</sup>.  STEL 15 minutes: 500 ppm.  TWA 8 hours: 999 mg/m<sup>3</sup>.  TWA 8 hours: 400 ppm.</p>
Ethylbenzene	<p><b>EH40/2005 WELs (United Kingdom (UK), 1/2020)</b> Absorbed through skin.  STEL 15 minutes: 552 mg/m<sup>3</sup>.  STEL 15 minutes: 125 ppm.  TWA 8 hours: 100 ppm.  TWA 8 hours: 441 mg/m<sup>3</sup>.</p>
Maleic anhydride	<p><b>EH40/2005 WELs (United Kingdom (UK), 1/2020)</b> Inhalation sensitiser.  STEL 15 minutes: 3 mg/m<sup>3</sup>.  TWA 8 hours: 1 mg/m<sup>3</sup>.</p>

### Biological exposure indices

Product/ingredient name	Exposure indices
Toluene	<p><b>VGU BEI (Austria, 9/2020)</b>  BEI Fitness: 250 µg/l, toluene [in blood]. Sampling time: one year.  BEI Fitness: 0.8 mg/l, o-cresol [in urine]. Sampling time: one year.  BEI Fitness: 130000 /µl, platelets (non-pathological differential blood count) [in blood]. Sampling time: one year.  BEI Fitness: 150000 /µl, platelets [in blood]. Sampling time: one year.  BEI Fitness: 3700 to 13000 /µl, leukocytes (non-pathological differential blood count) [in blood]. Sampling time: one year.  BEI Fitness: 4000 to 13000 /µl, leukocytes [in blood]. Sampling time: one year.  BEI Fitness - men: 3.8 million/µl, erythrocytes [in blood]. Sampling time: one year.</p>

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	<p>BEI Fitness - women: 3.2 million/<math>\mu</math>l, erythrocytes [in blood]. Sampling time: one year. BEI Fitness - men: 12 g/dl, hemoglobin [in blood]. Sampling time: one year. BEI Fitness - women: 10 g/dl, hemoglobin [in blood]. Sampling time: one year.</p>
Xylene	<p><b>VGU BEI (Austria, 9/2020) [Xylolol]</b> BEI Fitness: 1000 <math>\mu</math>g/l, xylene [in blood]. Sampling time: one year. BEI Fitness: 1.5 g/l, methylhippuric acid [in urine]. Sampling time: one year.</p>
No exposure indices known.	
Toluene	<p><b>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024)</b> BLV: 1.6 mmol/mmol creatinine, hippuric acid [in urine]. Sampling time: at the end of the exposure or at the end of the work shift.</p>
Ethylbenzene	<p><b>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024)</b> Notes: significant skin resorption possible BLV: 2000 mg/g creatinine, mandelic acid and phenylglyoxylic acid – in total [in urine]. Sampling time: at the end of the exposure or at the end of the work shift.</p>
Toluene	<p><b>Ordinance on the protection of workers from exposure to hazardous chemicals at work, biological limit values (Annex IV) (Croatia, 12/2023)</b> BEI: 20 ppm, toluene [in end exhaled air]. Sampling time: during exposure. BEI: 0.83 <math>\mu</math>mol/l, toluene [in end exhaled air]. Sampling time: during exposure. BEI: 1 mg/l, toluene [in blood]. Sampling time: at the end of the work shift. BEI: 10.85 <math>\mu</math>mol/l, toluene [in blood]. Sampling time: at the end of the work shift. BEI: 1.05 mmol/mol creatinine, o-cresol [in urine]. Sampling time: at the end of the work shift. BEI: 1 mg/g creatinine, o-cresol [in urine]. Sampling time: at the end of the work shift. BEI: 1.58 mol/mol creatinine, hippuric acid [in urine]. Sampling time: at the end of the work shift. BEI: 2.5 g/g creatinine, hippuric acid [in urine]. Sampling time: at the end of the work shift.</p>
Xylene	<p><b>Ordinance on the protection of workers from exposure to hazardous chemicals at work, biological limit values (Annex IV) (Croatia, 12/2023) [ksilen]</b> BEI: 1.5 mg/l, xylene [in blood]. Sampling time: at the end of the work shift. BEI: 14.13 <math>\mu</math>mol/l, xylene [in blood]. Sampling time: at the end of the work shift. BEI: 0.88 mol/mol creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift. BEI: 1.5 g/g creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift.</p>
Propan-2-ol	<p><b>Ordinance on the protection of workers from exposure to hazardous chemicals at work, biological limit values (Annex IV) (Croatia, 12/2023)</b> BEI: 50 mg/l, acetone [in urine]. Sampling time: at the end of the work shift. BEI: 50 mg/l, acetone [in blood]. Sampling time: at the end of the work shift.</p>

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<p>Ethylbenzene</p> <p>No exposure indices known.</p>	<p>BEI: 0.86 µmol/l, acetone [in urine]. Sampling time: at the end of the work shift. BEI: 0.86 µmol/l, acetone [in blood]. Sampling time: at the end of the work shift.</p> <p><b>Ordinance on the protection of workers from exposure to hazardous chemicals at work, biological limit values (Annex IV) (Croatia, 12/2023)</b> BEI: 1.5 mg/l, ethylbenzene [in blood]. Sampling time: during exposure. BEI: 14.1 µmol/l, ethylbenzene [in blood]. Sampling time: during exposure. BEI: 1.12 mol/mol creatinine, almond acid [in urine]. Sampling time: at the end of the work shift and at the end of the working week. BEI: 1.5 g/g creatinine, almond acid [in urine]. Sampling time: at the end of the work shift and at the end of the working week.</p>
<p>Toluene</p>	<p><b>Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015)</b> Biological limit values: 1000 µmol/mmol creatinine, hippuric acid [in urine]. Sampling time: end of the shift. Biological limit values: 1600 mg/g, hippuric acid [in urine]. Sampling time: end of the shift. Biological limit values: 1.6 µmol/mmol creatinine, o-kresol (after hydrolysis) [in urine]. Sampling time: end of the shift. Biological limit values: 1.5 mg/g creatinine, o-kresol (after hydrolysis) [in urine]. Sampling time: end of the shift.</p>
<p>Xylene</p>	<p><b>Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015) [Xyleny]</b> Biological limit values: 820 µmol/mmol creatinine, methylhippuric acid [in urine]. Sampling time: end of the shift. Biological limit values: 1400 mg/g creatinine, methylhippuric acid [in urine]. Sampling time: end of the shift.</p>
<p>Ethylbenzene</p> <p>No exposure indices known.</p> <p>No exposure indices known.</p> <p>No exposure indices known.</p>	<p><b>Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015)</b> Biological limit values: 1100 µmol/mmol creatinine, almond acid [in urine]. Sampling time: end of the shift. Biological limit values: 1500 mg/g creatinine, almond acid [in urine]. Sampling time: end of the shift.</p>
<p>Toluene</p>	<p><b>Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020)</b> BEI: 500 nmol/l, toluene [in blood]. Sampling time: the morning after the working day.</p>
<p>Xylene</p>	<p><b>Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) [Ksyleeni]</b> BEI: 5 mmol/l, methylhippuric acid [in urine]. Sampling time: at the end of the work shift.</p>
<p>Ethylbenzene</p>	<p><b>Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020)</b> BEI: 5.2 mmol/l, mandelic acid [in urine]. Sampling time: after work shift at the end of the working week or exposure period.</p>

## SECTION 8: Exposure controls/personal protection

Toluene	<p><b>Biological limit values (BLV) - Labour Code / ANSES (France, 4/2023)</b>            BLV: 30 µg/l, toluene [in urine]. Sampling time: at the end of the shift.            BLV: 20 µg/l, toluene [in blood]. Sampling time: at the beginning of the shift and at the end of the week.            BLV: 300 µg/g Cr, ortho-cresol [in urine]. Sampling time: end of shift and weekend.</p>
Toluene	<p><b>DFG BEI-values list (Germany, 7/2024)</b> Notes: danger from percutaneous absorption (see p. 211 and p. 228).            BEI: 600 µg/l, toluene [in blood]. Sampling time: immediately after exposure.            BEI: 1.5 mg/l, o-cresol (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift / for long-term exposures: at the end of the shift after several shifts.            BEI: 75 µg/l, toluene [in urine]. Sampling time: end of exposure or end of shift.</p> <p><b>TRGS 903 - BEI Values (Germany, 10/2024)</b>            BEI: 600 µg/l, toluene [in whole blood]. Sampling time: immediately after exposure.            BEI: 1.5 mg/l, o-cresol (after hydrolysis) [in urine]. Sampling time: at the end of the shift, for long-term exposure after several previous shifts.            BEI: 75 µg/l, toluene [in urine]. Sampling time: end of exposure or end of shift.</p>
Xylene	<p><b>DFG BEI-values list (Germany, 7/2024) [Xylene (all isomers)]</b>            Notes: danger from percutaneous absorption (see p. 211 and p. 228).            BEI: 1800 mg/g creatinine, Methylhippuric acids (=toluric acids) (all isomers) [in urine]. Sampling time: end of exposure or end of shift.</p> <p><b>TRGS 903 - BEI Values (Germany, 10/2024) [Xylol alle Isomeren]</b>            BEI: 2000 mg/l, methylhippuric acid [in urine]. Sampling time: end of exposure or end of shift.</p>
Propan-2-ol	<p><b>DFG BEI-values list (Germany, 7/2024)</b>            BEI: 25 mg/l, acetone [in blood]. Sampling time: end of exposure or end of shift.            BEI: 25 mg/l, acetone [in urine]. Sampling time: end of exposure or end of shift.</p> <p><b>TRGS 903 - BEI Values (Germany, 10/2024)</b>            BEI: 25 mg/l, acetone [in whole blood]. Sampling time: end of exposure or end of shift.            BEI: 25 mg/l, acetone [in urine]. Sampling time: end of exposure or end of shift.</p>
Ethylbenzene	<p><b>DFG BEI-values list (Germany, 7/2024)</b> Notes: danger from percutaneous absorption (see p. 211 and p. 228).            BEI: 250 mg/g creatinine, mandelic acid plus phenyl glyoxylic acid [in urine]. Sampling time: end of exposure or end of shift.</p> <p><b>TRGS 903 - BEI Values (Germany, 10/2024)</b>            BEI: 250 mg/g creatinine, mandelic acid plus phenylglyoxylic acid [in urine]. Sampling time: end of exposure or end of shift.</p>
No exposure indices known.	

## SECTION 8: Exposure controls/personal protection

Toluene	<p><b>5/2020. (II. 6.) ITM Decree (Hungary, 12/2023)</b>            BEI: 1 mg/g creatinine, o-cresol [in urine]. Sampling time: at the end of the shift.            BEI: 1 µmol/mmol creatinine, o-cresol [in urine]. Sampling time: at the end of the shift.</p>
Xylene	<p><b>5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) [xilo]</b>            BEI: 1500 mg/g creatinine, methylhippuric acid [in urine].            Sampling time: at the end of the shift.            BEI: 860 µmol/mmol creatinine, methylhippuric acid [in urine].            Sampling time: at the end of the shift.</p>
Propan-2-ol	<p><b>5/2020. (II. 6.) ITM Decree (Hungary, 12/2023)</b>            BEI: 430 µmol/l, acetone [in urine]. Sampling time: at the end of the shift.            BEI: 25 mg/l, acetone [in urine]. Sampling time: at the end of the shift.</p>
Ethylbenzene	<p><b>5/2020. (II. 6.) ITM Decree (Hungary, 12/2023)</b>            BEI: 1500 mg/g creatinine, mandelic acid [in urine]. Sampling time: at the end of the working week; at the end of the shift.            BEI: 1110 µmol/mmol creatinine, mandelic acid [in urine].            Sampling time: at the end of the working week; at the end of the shift.</p>
No exposure indices known.	
Toluene	<p><b>NAOSH BGVs (Ireland, 1/2011)</b>            BMGV: 0.3 mg/g creatinine, o-cresol [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.            BMGV: 0.03 mg/l, toluene [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.            BMGV: 0.02 mg/l, toluene [in blood]. Sampling time: prior to last shift of workweek.</p>
Xylene	<p><b>NAOSH BGVs (Ireland, 1/2011) [Xylene]</b>            BMGV: 1.5 g/g creatinine, methylhippuric acids [in urine].            Sampling time: end of shift - As soon as possible after exposure ceases.</p>
Propan-2-ol	<p><b>NAOSH BGVs (Ireland, 1/2011)</b>            BMGV: 40 mg/l, acetone [in urine]. Sampling time: end of shift at end of workweek.</p>
Ethylbenzene	<p><b>NAOSH BGVs (Ireland, 1/2011)</b>            BMGV: Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative interpretation of the measurement is ambiguous. These analytes should be used as a screening test if a quantitative test is not practical; or as a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question., ethylbenzene [in endexhaled air].            Sampling time: not critical.            BMGV: 0.7 g/g creatinine [Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative interpretation of the measurement is ambiguous. These analytes should be used as a screening test if a quantitative test is not practical; or as a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question.], mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift at end of workweek.</p>
No exposure indices known.	

## SECTION 8: Exposure controls/personal protection

Toluene	<p><b>Minister Cabinet Regulations No.325 - BEI (Latvia, 3/2024)</b>            BEI: 600 µg/l, toluene [in blood]. Sampling time: at the end of the exposure.            BEI: 75 µg/l, toluene [in urine]. Sampling time: end of the shift.            BEI: 1.5 mg/l, o-cresol (after hydrolysis) [in urine]. Sampling time: at the end of the exposure or at the end of the shift.</p>
Xylene	<p><b>Minister Cabinet Regulations No.325 - BEI (Latvia, 3/2024) [ksiloli (visi izomēri)]</b>            BEI: 2000 mg/l, methylhippuric (toluric) acid (all isomers) [in urine].            Sampling time: at the end of the exposure or at the end of the shift.</p>
Propan-2-ol	<p><b>Minister Cabinet Regulations No.325 - BEI (Latvia, 3/2024)</b>            BEI: 25 mg/l, acetone [in urine]. Sampling time: at the end of the exposure or at the end of the shift.            BEI: 25 mg/l, acetone [in blood]. Sampling time: at the end of the exposure or at the end of the shift.</p>
<p>No exposure indices known.            No exposure indices known.</p>	
Toluene	<p><b>Portuguese Institute of Quality (Portugal, 11/2014)</b>            BEI: 0.3 mg/g creatinine, o-cresol [in urine]. Sampling time: end of shift.            BEI: 0.03 mg/l, toluene [in urine]. Sampling time: end of shift.            BEI: 0.02 mg/l, toluene [in blood]. Sampling time: end of shift at the end of the workweek.</p>
Xylene	<p><b>Portuguese Institute of Quality (Portugal, 11/2014) [Xilenos (graus técnico e comercial)]</b>            BEI: 1.5 g/g creatinine, (o, m, p) -methyl-boronic acids [in urine].            Sampling time: end of shift.</p>
Propan-2-ol	<p><b>Portuguese Institute of Quality (Portugal, 11/2014)</b>            BEI: 40 mg/l, acetone [in urine]. Sampling time: end of shift at the end of the workweek.</p>
Ethylbenzene	<p><b>Portuguese Institute of Quality (Portugal, 11/2014)</b>            BEI: 0.7 g/g creatinine, sum of mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift.</p>
Toluene	<p><b>HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2024)</b>            OBLV: 3 mg/l, o-cresol [in urine]. Sampling time: end of shift.            OBLV: 2 g/l, hippuric acid [in urine]. Sampling time: end of shift.</p>
Xylene	<p><b>HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2024) [xilen]</b>            OBLV: 3 g/l, methylhippuric acid [in urine]. Sampling time: end of shift.</p>
Propan-2-ol	<p><b>HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2024)</b>            OBLV: 50 mg/l, acetone [in urine]. Sampling time: end of shift.</p>
Ethylbenzene	<p><b>HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2024)</b>            OBLV: 1.5 g/g creatinine, mandelic acid [in urine]. Sampling time: end of the week.</p>

## SECTION 8: Exposure controls/personal protection

Toluene

### Government regulation SR c. 355/2006 (Slovakia, 6/2024)

BLV: 1010  $\mu\text{mol}/\text{mmol}$  creatinine, as hippuric acid [in urine].

Sampling time: at the end of exposure or work shift.

BLV: 1.08  $\mu\text{mol}/\text{mmol}$  creatinine, as o-cresol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

BLV: 1600 mg/g creatinine, as hippuric acid [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 1.03 mg/g creatinine, as o-cresol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

BLV: 13399  $\mu\text{mol}/\text{l}$ , as hippuric acid [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 14.3  $\mu\text{mol}/\text{l}$ , as o-cresol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

BLV: 6517 nmol/l, as toluene [in blood]. Sampling time: at the end of exposure or work shift.

BLV: 2401 mg/l, as hippuric acid [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 1.5 mg/l, as o-cresol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

BLV: 600  $\mu\text{g}/\text{l}$ , as toluene [in blood]. Sampling time: at the end of exposure or work shift.

Xylene

### Government regulation SR c. 355/2006 (Slovakia, 6/2024)

#### [xylén (všetky izoméry)]

BLV: 781  $\mu\text{mol}/\text{mmol}$  creatinine, as sum of 2,3,4-methylhippuric acids [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 1334 mg/g creatinine, as sum of 2,3,4-methylhippuric acids [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 10355  $\mu\text{mol}/\text{l}$ , as sum of 2,3,4-methylhippuric acids [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 14.6  $\mu\text{mol}/\text{l}$ , as xylene [in blood]. Sampling time: at the end of exposure or work shift.

BLV: 2000 mg/l, as sum of 2,3,4-methylhippuric acids [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 1.5 mg/l, as xylene [in blood]. Sampling time: at the end of exposure or work shift.

Ethylbenzene

### Government regulation SR c. 355/2006 (Slovakia, 6/2024)

BLV: 799  $\mu\text{mol}/\text{mmol}$  creatinine, as mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

BLV: 7.44  $\mu\text{mol}/\text{mmol}$  creatinine, as 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

BLV: 1067 mg/g creatinine, as mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

BLV: 8.03 mg/g creatinine, as 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

BLV: 10590  $\mu\text{mol}/\text{l}$ , as mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

BLV: 98.6  $\mu\text{mol}/\text{l}$ , as 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

BLV: 1600 mg/l, as mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

## SECTION 8: Exposure controls/personal protection

	<p>BLV: 12 mg/l, as 2 or 4-ethylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.</p>
Toluene	<p><b>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)</b>          BAT: 1.5 mg/l, o-cresol (after hydrolysis) [in urine]. Sampling time: at the end of the work shift, at long-term exposure: at the end of the work shift after several consecutive workdays.          BAT: 600 µg/l, toluene [in blood]. Sampling time: immediately after exposure.          BAT: 75 µg/l, toluene [in urine]. Sampling time: at the end of the work shift.</p>
Xylene	<p><b>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) [ksilen (vse izomere)]</b>          BAT: 2 g/l, methylhippuric acid (all isomers) [in urine]. Sampling time: at the end of the work shift.</p>
Propan-2-ol	<p><b>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)</b>          BAT: 25 mg/l, acetone [in urine]. Sampling time: at the end of the work shift.          BAT: 25 mg/l, acetone [in blood]. Sampling time: at the end of the work shift.</p>
Ethylbenzene	<p><b>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)</b>          BAT: 250 mg/g creatinine, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of the work shift.</p>
Toluene	<p><b>National institute of occupational safety and health (Spain, 1/2024)</b>          VLB: 0.05 mg/l, toluene [in blood]. Sampling time: prior to last shift of workweek.          VLB: 0.6 mg/g creatinine, o-cresol [in urine]. Sampling time: end of shift.          VLB: 0.08 mg/l, toluene [in urine]. Sampling time: end of shift.</p>
Xylene	<p><b>National institute of occupational safety and health (Spain, 1/2024) [Xilenos]</b>          VLB: 1 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift.</p>
Propan-2-ol	<p><b>National institute of occupational safety and health (Spain, 1/2024)</b>          VLB: 40 mg/l, acetone [in urine]. Sampling time: end of workweek.</p>
Ethylbenzene	<p><b>National institute of occupational safety and health (Spain, 1/2024)</b>          VLB: 700 mg/g creatinine, sum of mandelic acid and acid and phenylglyoxylic acid [in urine]. Sampling time: end of workweek.</p>
No exposure indices known.	
Toluene	<p><b>SUVA (Switzerland, 1/2025)</b>          BEI: 2 g/g creatinine, hippuric acid [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.          BEI: 1.26 mmol/mmol creatinine, hippuric acid [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.          BEI: 0.5 mg/l, o-cresol [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.</p>

## SECTION 8: Exposure controls/personal protection

Xylene	<p>BEI: 4.62 µmol/l, o-cresol [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.</p> <p>BEI: 600 µg/l, toluene [in blood]. Sampling time: immediately after exposure or after working hours.</p> <p>BEI: 6.48 µmol/l, toluene [in blood]. Sampling time: immediately after exposure or after working hours.</p> <p>BEI: 75 µg/l, toluene [in urine]. Sampling time: immediately after exposure or after working hours.</p> <p><b>SUVA (Switzerland, 1/2025) [Xylol (alle Isomere)]</b></p> <p>BEI: 2 g/l, methyl hippuric acid [in urine]. Sampling time: immediately after exposure or after working hours.</p>
Propan-2-ol	<p><b>SUVA (Switzerland, 1/2025)</b></p> <p>BEI: 0.4 mmol/l, acetone [in blood]. Sampling time: immediately after exposure or after working hours.</p> <p>BEI: 25 mg/l, acetone [in blood]. Sampling time: immediately after exposure or after working hours.</p> <p>BEI: 0.4 mmol/l, acetone [in urine]. Sampling time: immediately after exposure or after working hours.</p> <p>BEI: 25 mg/l, acetone [in urine]. Sampling time: immediately after exposure or after working hours.</p>
Ethylbenzene	<p><b>SUVA (Switzerland, 1/2025)</b></p> <p>BEI: 600 mg/g creatinine, mandelic acid + phenylglyoxylic acid [in urine]. Sampling time: immediately after exposure or after working hours.</p>
Xylene	<p><b>EH40/2005 BMGVs (United Kingdom (UK), 1/2020) [Xylene, o-, m-, p- or mixed isomers]</b></p> <p>BGV: 650 mmol/mol creatinine, methyl hippuric acid [in urine]. Sampling time: post shift.</p>

**Recommended monitoring procedures** : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### DNELs/DMELs

#### Product/ingredient name

n-Butyl acetate

#### Result

##### **DNEL - General population - Long term - Oral**

2 mg/kg bw/day

Effects: Systemic

##### **DNEL - General population - Short term - Oral**

2 mg/kg bw/day

Effects: Systemic

##### **DNEL - General population - Long term - Dermal**

3.4 mg/kg bw/day

Effects: Systemic

##### **DNEL - General population - Short term - Dermal**

6 mg/kg bw/day

Effects: Systemic

##### **DNEL - Workers - Long term - Dermal**

7 mg/kg bw/day

Effects: Systemic

## SECTION 8: Exposure controls/personal protection

### **DNEL - Workers - Short term - Dermal**

11 mg/kg bw/day

Effects: Systemic

### **DNEL - General population - Long term - Inhalation**

12 mg/m<sup>3</sup>

Effects: Systemic

### **DNEL - General population - Long term - Inhalation**

35.7 mg/m<sup>3</sup>

Effects: Local

### **DNEL - Workers - Long term - Inhalation**

48 mg/m<sup>3</sup>

Effects: Systemic

### **DNEL - General population - Short term - Inhalation**

300 mg/m<sup>3</sup>

Effects: Local

### **DNEL - General population - Short term - Inhalation**

300 mg/m<sup>3</sup>

Effects: Systemic

### **DNEL - Workers - Long term - Inhalation**

300 mg/m<sup>3</sup>

Effects: Local

### **DNEL - Workers - Short term - Inhalation**

600 mg/m<sup>3</sup>

Effects: Local

### **DNEL - Workers - Short term - Inhalation**

600 mg/m<sup>3</sup>

Effects: Systemic

### **DNEL - General population - Long term - Oral**

4.5 mg/kg bw/day

Effects: Systemic

### **DNEL - General population - Long term - Dermal**

37 mg/kg bw/day

Effects: Systemic

### **DNEL - Workers - Long term - Dermal**

63 mg/kg bw/day

Effects: Systemic

### **DNEL - General population - Long term - Inhalation**

367 mg/m<sup>3</sup>

Effects: Local

### **DNEL - General population - Long term - Inhalation**

367 mg/m<sup>3</sup>

Effects: Systemic

### **DNEL - General population - Short term - Inhalation**

734 mg/m<sup>3</sup>

Effects: Local

### **DNEL - General population - Short term - Inhalation**

734 mg/m<sup>3</sup>

Effects: Systemic

### **DNEL - Workers - Long term - Inhalation**

Ethyl acetate

## SECTION 8: Exposure controls/personal protection

734 mg/m<sup>3</sup>  
Effects: Local

**DNEL - Workers - Long term - Inhalation**

734 mg/m<sup>3</sup>  
Effects: Systemic

**DNEL - Workers - Short term - Inhalation**

1468 mg/m<sup>3</sup>  
Effects: Local

**DNEL - Workers - Short term - Inhalation**

1468 mg/m<sup>3</sup>  
Effects: Systemic

Toluene

**DNEL - General population - Long term - Oral**

8.13 mg/kg bw/day  
Effects: Systemic

**DNEL - General population - Long term - Inhalation**

56.5 mg/m<sup>3</sup>  
Effects: Local

**DNEL - General population - Long term - Inhalation**

56.5 mg/m<sup>3</sup>  
Effects: Systemic

**DNEL - Workers - Long term - Inhalation**

192 mg/m<sup>3</sup>  
Effects: Local

**DNEL - Workers - Long term - Inhalation**

192 mg/m<sup>3</sup>  
Effects: Systemic

**DNEL - General population - Long term - Dermal**

226 mg/kg bw/day  
Effects: Systemic

**DNEL - General population - Short term - Inhalation**

226 mg/m<sup>3</sup>  
Effects: Local

**DNEL - General population - Short term - Inhalation**

226 mg/m<sup>3</sup>  
Effects: Systemic

**DNEL - Workers - Long term - Dermal**

384 mg/kg bw/day  
Effects: Systemic

**DNEL - Workers - Short term - Inhalation**

384 mg/m<sup>3</sup>  
Effects: Local

**DNEL - Workers - Short term - Inhalation**

384 mg/m<sup>3</sup>  
Effects: Systemic

Xylene

**DNEL - General population - Long term - Oral**

5 mg/kg bw/day  
Effects: Systemic

**DNEL - General population - Long term - Inhalation**

65.3 mg/m<sup>3</sup>  
Effects: Local

## SECTION 8: Exposure controls/personal protection

### **DNEL - General population - Long term - Inhalation**

65.3 mg/m<sup>3</sup>

Effects: Systemic

### **DNEL - General population - Long term - Dermal**

125 mg/kg bw/day

Effects: Systemic

### **DNEL - Workers - Long term - Dermal**

212 mg/kg bw/day

Effects: Systemic

### **DNEL - Workers - Long term - Inhalation**

221 mg/m<sup>3</sup>

Effects: Local

### **DNEL - Workers - Long term - Inhalation**

221 mg/m<sup>3</sup>

Effects: Systemic

### **DNEL - General population - Short term - Inhalation**

260 mg/m<sup>3</sup>

Effects: Local

### **DNEL - General population - Short term - Inhalation**

260 mg/m<sup>3</sup>

Effects: Systemic

### **DNEL - Workers - Short term - Inhalation**

442 mg/m<sup>3</sup>

Effects: Local

### **DNEL - Workers - Short term - Inhalation**

442 mg/m<sup>3</sup>

Effects: Systemic

2-Methoxy-1-methylethyl acetate

### **DNEL - General population - Long term - Inhalation**

33 mg/m<sup>3</sup>

Effects: Local

### **DNEL - General population - Long term - Inhalation**

33 mg/m<sup>3</sup>

Effects: Systemic

### **DNEL - General population - Long term - Oral**

36 mg/kg bw/day

Effects: Systemic

### **DNEL - Workers - Long term - Inhalation**

275 mg/m<sup>3</sup>

Effects: Systemic

### **DNEL - General population - Long term - Dermal**

320 mg/kg bw/day

Effects: Systemic

### **DNEL - Workers - Short term - Inhalation**

550 mg/m<sup>3</sup>

Effects: Local

### **DNEL - Workers - Long term - Dermal**

796 mg/kg bw/day

Effects: Systemic

Propan-2-ol

### **DNEL - Workers - Long term - Inhalation**

## SECTION 8: Exposure controls/personal protection

500 mg/m<sup>3</sup>  
Effects: Systemic

**DNEL - Workers - Long term - Dermal**

888 mg/kg bw/day  
Effects: Systemic

**DNEL - General population - Long term - Oral**

26 mg/kg bw/day  
Effects: Systemic

**DNEL - General population - Short term - Oral**

51 mg/kg bw/day  
Effects: Systemic

**DNEL - General population - Long term - Inhalation**

89 mg/m<sup>3</sup>  
Effects: Systemic

**DNEL - General population - Short term - Inhalation**

178 mg/m<sup>3</sup>  
Effects: Systemic

**DNEL - General population - Long term - Dermal**

319 mg/kg bw/day  
Effects: Systemic

**DNEL - Workers - Short term - Inhalation**

1000 mg/m<sup>3</sup>  
Effects: Systemic

Ethylbenzene

**DMEL - Workers - Long term - Inhalation**

442 mg/m<sup>3</sup>  
Effects: Local

**DMEL - Workers - Short term - Inhalation**

884 mg/m<sup>3</sup>  
Effects: Systemic

**DNEL - General population - Long term - Oral**

1.6 mg/kg bw/day  
Effects: Systemic

**DNEL - General population - Long term - Inhalation**

15 mg/m<sup>3</sup>  
Effects: Systemic

**DNEL - Workers - Long term - Inhalation**

77 mg/m<sup>3</sup>  
Effects: Systemic

**DNEL - Workers - Long term - Dermal**

180 mg/kg bw/day  
Effects: Systemic

**DNEL - Workers - Short term - Inhalation**

293 mg/m<sup>3</sup>  
Effects: Local

Fatty acids, C14-18 and C16-18-unsatd.,  
maleated

**DNEL - General population - Long term - Oral**

1.5 mg/kg bw/day  
Effects: Systemic

**DNEL - General population - Long term - Dermal**

1.5 mg/kg bw/day  
Effects: Systemic

## SECTION 8: Exposure controls/personal protection

Maleic anhydride

**DNEL - Workers - Long term - Dermal**

3 mg/kg bw/day

Effects: Systemic

**DNEL - General population - Long term - Inhalation**

0.05 mg/m<sup>3</sup>

Effects: Systemic

**DNEL - General population - Long term - Oral**

0.06 mg/kg bw/day

Effects: Systemic

**DNEL - General population - Long term - Inhalation**

0.08 mg/m<sup>3</sup>

Effects: Local

**DNEL - Workers - Long term - Inhalation**

0.081 mg/m<sup>3</sup>

Effects: Local

**DNEL - Workers - Long term - Inhalation**

0.081 mg/m<sup>3</sup>

Effects: Systemic

**DNEL - General population - Short term - Oral**

0.1 mg/kg bw/day

Effects: Systemic

**DNEL - General population - Short term - Dermal**

0.1 mg/kg bw/day

Effects: Systemic

**DNEL - General population - Long term - Dermal**

0.1 mg/kg bw/day

Effects: Systemic

**DNEL - Workers - Short term - Dermal**

0.2 mg/kg bw/day

Effects: Systemic

**DNEL - Workers - Long term - Dermal**

0.2 mg/kg bw/day

Effects: Systemic

**DNEL - Workers - Short term - Inhalation**

0.2 mg/m<sup>3</sup>

Effects: Local

**DNEL - Workers - Short term - Inhalation**

0.2 mg/m<sup>3</sup>

Effects: Systemic

### PNECs

Not available.

## 8.2 Exposure controls

## SECTION 8: Exposure controls/personal protection

**Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

### Skin protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Recommendations : Wear suitable gloves tested to EN374.

< 1 hour (breakthrough time): Nitrile gloves. thickness > 0.3 mm

1 - 4 hours (breakthrough time): 4H / Silver Shield® gloves.

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Filter type: A

Filter type (spray application): A P

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

#### Appearance

**Physical state** : Liquid.  
**Colour** : Various  
**Odour** : Slight  
**Odour threshold** : Not available.

## SECTION 9: Physical and chemical properties

**Melting point/freezing point** : Not available.

**Initial boiling point and boiling range** :

Ingredient name	°C	°F	Method
Ethyl acetate	77.1	170.8	
Propan-2-ol	83	181.4	

**Flammability** : Not available.

**Lower and upper explosion limit** : Lower: 0.8% (xylene)  
Upper: 12% (Isopropyl alcohol)

**Flash point** : Closed cup: -1°C (30.2°F)

**Auto-ignition temperature** :

Ingredient name	°C	°F	Method
2-Methoxy-1-methylethyl acetate	333	631.4	DIN 51794
n-Butyl acetate	415	779	EU A.15

**Decomposition temperature** : Not available.

**pH** : Not applicable.

**Viscosity** : Not available.

**Solubility(ies)** :

Not available.

**Solubility in water** : Not available.

**Partition coefficient: n-octanol/ water** : Not applicable.

**Vapour pressure** :

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
Ethyl acetate	81.59163	10.9				
Propan-2-ol	33.00268	4.4				

**Relative density** : Not available.

**Density** : 0.9 g/cm<sup>3</sup>

**Vapour density** : Not available.

### Particle characteristics

**Median particle size** : Not applicable.

## 9.2 Other information

### 9.2.1 Information with regard to physical hazard classes

**Explosive properties** : Not available.

**Oxidising properties** : Not available.

### 9.2.2 Other safety characteristics

Not applicable.

## SECTION 10: Stability and reactivity

**10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability** : The product is stable.

**10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

## SECTION 10: Stability and reactivity

- 10.4 Conditions to avoid** : Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
- 10.5 Incompatible materials** : Reactive or incompatible with the following materials:  
oxidising materials
- 10.6 Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

##### **Product/ingredient name**

n-Butyl acetate

##### **Result**

**Rat - Oral - LD50**

10760 mg/kg

EU

**Rabbit - Dermal - LD50**

14112 mg/kg

**Rat - Inhalation - LC50 Vapour**

0.74 mg/l [4 hours]

Ethyl acetate

**Rat - Oral - LD50**

5620 mg/kg

Toluene

**Rat - Oral - LD50**

636 mg/kg

**Rat - Inhalation - LC50 Vapour**

49 g/m<sup>3</sup> [4 hours]

Xylene

**Rat - Oral - LD50**

4300 mg/kg

Toxic effects: Liver - Other changes  
Kidney, Ureter, and Bladder - Other changes

**Rat - Inhalation - LC50 Vapour**

21.7 mg/l [4 hours]

2-Methoxy-1-methylethyl acetate

**Rat - Oral - LD50**

8532 mg/kg

**Rabbit - Dermal - LD50**

>5 g/kg

Propan-2-ol

**Rabbit - Dermal - LD50**

12800 mg/kg

**Rat - Oral - LD50**

5000 mg/kg

Toxic effects: Behavioral - General anesthetic

Ethylbenzene

**Rat - Oral - LD50**

3500 mg/kg

**Rabbit - Dermal - LD50**

15400 mg/kg

**Rat - Inhalation - LC50 Dusts and mists**

29000 mg/l [4 hours]

Maleic anhydride

**Rat - Oral - LD50**

## SECTION 11: Toxicological information

400 mg/kg

**Rabbit - Dermal - LD50**

2620 mg/kg

**Conclusion/Summary [Product]** : Not available.

### Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
SUPREMO AUFHELLEND 2025-05	N/A	32660.2	N/A	248.3	N/A
n-Butyl acetate	10760	14112	N/A	N/A	N/A
Ethyl acetate	5620	N/A	N/A	N/A	N/A
Toluene	N/A	N/A	N/A	49	N/A
Xylene	4300	1100	N/A	11	N/A
2-Methoxy-1-methylethyl acetate	8532	N/A	N/A	N/A	N/A
Propan-2-ol	5000	12800	N/A	N/A	N/A
Ethylbenzene	3500	15400	N/A	11	29000
Maleic anhydride	400	2620	N/A	N/A	N/A

### Skin corrosion/irritation

#### Product/ingredient name

n-Butyl acetate

#### Result

**Rabbit - Skin - Moderate irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 500 mg

Toluene

**Pig - Skin - Mild irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 250 uL

**Rabbit - Skin - Mild irritant**

Amount/concentration applied: 435 mg

**Rabbit - Skin - Moderate irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 20 mg

**Rabbit - Skin - Moderate irritant**

Amount/concentration applied: 500 mg

Xylene

**Rat - Skin - Mild irritant**

Duration of treatment/exposure: 8 hours

Amount/concentration applied: 60 uL

**Rabbit - Skin - Moderate irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 500 mg

**Rabbit - Skin - Moderate irritant**

Amount/concentration applied: 100 %

Propan-2-ol

**Rabbit - Skin - Mild irritant**

Amount/concentration applied: 500 mg

Ethylbenzene

**Rabbit - Skin - Mild irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 15 mg

**Conclusion/Summary [Product]** : Not available.

## SECTION 11: Toxicological information

### Serious eye damage/eye irritation

#### Product/ingredient name

n-Butyl acetate

#### Result

**Rabbit - Eyes - Moderate irritant**

Amount/concentration applied: 100 mg

Toluene

**Rabbit - Eyes - Mild irritant**

Duration of treatment/exposure: 0.5 minutes

Amount/concentration applied: 100 mg

**Rabbit - Eyes - Mild irritant**

Amount/concentration applied: 870 ug

**Rabbit - Eyes - Severe irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 2 mg

**Rabbit - Eyes - Severe irritant**

Amount/concentration applied: 0.1 MI

Xylene

**Rabbit - Eyes - Mild irritant**

Amount/concentration applied: 87 mg

**Rabbit - Eyes - Severe irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 5 mg

Propan-2-ol

**Rabbit - Eyes - Moderate irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 100 mg

**Rabbit - Eyes - Moderate irritant**

Amount/concentration applied: 10 mg

**Rabbit - Eyes - Severe irritant**

Amount/concentration applied: 100 mg

Ethylbenzene

**Rabbit - Eyes - Severe irritant**

Amount/concentration applied: 500 mg

Maleic anhydride

**Rabbit - Eyes - Severe irritant**

Amount/concentration applied: 1 %

**Conclusion/Summary [Product]** : Not available.

### Respiratory corrosion/irritation

Not available.

**Conclusion/Summary [Product]** : Not available.

### Respiratory or skin sensitization

Not available.

### Skin

**Conclusion/Summary [Product]** : Not available.

### Respiratory

**Conclusion/Summary [Product]** : Not available.

### Germ cell mutagenicity

Not available.

## SECTION 11: Toxicological information

**Conclusion/Summary [Product]** : Not available.

### Carcinogenicity

Not available.

**Conclusion/Summary [Product]** : Not available.

### Reproductive toxicity

Not available.

**Conclusion/Summary [Product]** : Not available.

### Specific target organ toxicity (single exposure)

#### **Product/ingredient name**

n-Butyl acetate  
Ethyl acetate  
Toluene  
Xylene  
Propan-2-ol

#### **Result**

STOT SE 3, H336 (Narcotic effects)  
STOT SE 3, H336 (Narcotic effects)  
STOT SE 3, H336 (Narcotic effects)  
STOT SE 3, H335 (Respiratory tract irritation)  
STOT SE 3, H336 (Narcotic effects)

### Specific target organ toxicity (repeated exposure)

#### **Product/ingredient name**

Toluene  
Xylene  
Ethylbenzene  
Maleic anhydride

#### **Result**

STOT RE 2, H373  
STOT RE 2, H373 (oral, inhalation)  
STOT RE 2, H373 (hearing organs) (oral, inhalation)  
STOT RE 1, H372 (respiratory system) (inhalation)

### Aspiration hazard

#### **Product/ingredient name**

Toluene  
Xylene  
Ethylbenzene

#### **Result**

ASPIRATION HAZARD - Category 1  
ASPIRATION HAZARD - Category 1  
ASPIRATION HAZARD - Category 1

### Information on likely routes of exposure

Not available.

### Potential acute health effects

- Eye contact** : Causes serious eye irritation.  
**Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.  
**Skin contact** : Causes skin irritation. May cause an allergic skin reaction.  
**Ingestion** : Can cause central nervous system (CNS) depression.

### Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations

## SECTION 11: Toxicological information

- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Short term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

#### Long term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

#### Potential chronic health effects

Not available.

**Conclusion/Summary [Product]** : Not available.

- General** : May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Reproductive toxicity** : Suspected of damaging the unborn child.

### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

Not available.

**Conclusion/Summary [Product]** : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

#### 11.2.2 Other information

Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### **Product/ingredient name**

n-Butyl acetate

#### **Result**

##### **Acute - LC50 - Fresh water**

Fish - Fathead minnow - *Pimephales promelas*  
Age: 31 to 32 days; Size: 21.6 mm; Weight: 0.175 g  
18000 µg/l [96 hours]  
Effect: Mortality

##### **Acute - LC50 - Marine water**

Crustaceans - Brine shrimp - *Artemia salina*  
32 mg/l [48 hours]  
Effect: Mortality

Ethyl acetate

##### **Acute - LC50 - Fresh water**

Daphnia - Water flea - *Daphnia cucullata*  
Age: 11 days  
154000 µg/l [48 hours]  
Effect: Mortality

## SECTION 12: Ecological information

### Acute - LC50 - Fresh water

Fish - Indian catfish - *Heteropneustes fossilis*

Size: 14.16 cm; Weight: 25.54 g

212500 µg/l [96 hours]

Effect: Mortality

### Acute - EC50 - Fresh water

Algae - Green algae - *Selenastrum sp.*

2500000 µg/l [96 hours]

### Chronic - NOEC - Fresh water

Daphnia - Water flea - *Daphnia magna*

12 mg/l [21 days]

Effect: Behavior

### Chronic - NOEC - Fresh water

Fish - Fathead minnow - *Pimephales promelas* - Embryo

Age: <24 hours

75.6 mg/l [32 days]

Effect: Mortality

Toluene

### Acute - LC50 - Fresh water

Fish - Coho salmon, silver salmon - *Oncorhynchus kisutch* - Fry

Weight: 1 g

5500 µg/l [96 hours]

Effect: Mortality

### Acute - EC50 - Fresh water

Algae - Green algae - *Pseudokirchneriella subcapitata*

12500 µg/l [72 hours]

Effect: Growth

### Chronic - NOEC - Fresh water

Daphnia - Water flea - *Daphnia magna*

Age: ≤24 hours

1000 µg/l [21 days]

Effect: Reproduction

### Acute - EC50 - Fresh water

Daphnia - Water flea - *Daphnia magna* - Neonate

Age: ≤24 hours

5.56 mg/l [48 hours]

Effect: Intoxication

Propan-2-ol

### Acute - LC50 - Marine water

Crustaceans - Common shrimp, sand shrimp - *Crangon crangon*

1400000 µg/l [48 hours]

Effect: Mortality

### Acute - LC50 - Fresh water

Fish - Harlequinfish, red rasbora - *Rasbora heteromorpha*

Size: 1 to 3 cm

4200000 µg/l [96 hours]

Effect: Mortality

Maleic anhydride

### Acute - LC50 - Fresh water

Fish - Western mosquitofish - *Gambusia affinis* - Adult

230000 µg/l [96 hours]

Effect: Mortality

**Conclusion/Summary [Product]** : Not available.

## 12.2 Persistence and degradability

Not available.

## SECTION 12: Ecological information

**Conclusion/Summary [Product]** : Not available.

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
n-Butyl acetate	2.3	-	Low
Ethyl acetate	0.68	30	Low
Toluene	2.73	90	Low
Xylene	3.12	8.1 to 25.9	Low
2-Methoxy-1-methylethyl acetate	1.2	-	Low
Propan-2-ol	0.05	-	Low
Ethylbenzene	3.6	-	Low
Maleic anhydride	-2.78	-	Low

### 12.4 Mobility in soil

#### Soil/water partition coefficient

Product/ingredient name	logK <sub>oc</sub>	K <sub>oc</sub>
n-Butyl acetate	1.5	33.2139
Ethyl acetate	1.3	18.1744
Toluene	2.1	117.115
2-Methoxy-1-methylethyl acetate	0.36	2.31363
Propan-2-ol	0.54	3.4364
Ethylbenzene	2.2	170.406
Maleic anhydride	1.1	11.4841

#### Results of PMT and vPvM assessment

Product/ingredient name	PMT	P	M	T	vPvM	vP	vM
n-Butyl acetate	No	No	No	No	No	No	No
Ethyl acetate	No	No	No	No	No	No	No
Toluene	No	No	No	No	No	No	No
Xylene	No	No	No	No	No	No	No
2-Methoxy-1-methylethyl acetate	No	No	No	No	No	No	No
Propan-2-ol	No	No	No	No	No	No	No
Ethylbenzene	No	No	No	No	No	No	No
Mixture of alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl) propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl) propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl) propionyloxypoly(oxyethylene)	No	No	No	No	No	No	No
Fatty acids, C14-18 and C16-18-unsatd., maleated	No	No	No	No	No	No	No
Maleic anhydride	No	No	No	No	No	No	No

**Mobility** : Not available.

**Conclusion/Summary** : The product does not meet the criteria to be considered as a PMT or vPvM.

### 12.5 Results of PBT and vPvB assessment

#### Regulation (EC) No. 1907/2006 [REACH]

## SECTION 12: Ecological information

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
n-Butyl acetate	No	N/A	N/A	No	N/A	N/A	N/A
Ethyl acetate	No	N/A	No	No	No	N/A	No
Toluene	No	N/A	No	Yes	No	N/A	No
Xylene	No	N/A	No	Yes	No	N/A	No
2-Methoxy-1-methylethyl acetate	No	N/A	N/A	No	N/A	N/A	N/A
Propan-2-ol	No	N/A	N/A	No	N/A	N/A	N/A
Ethylbenzene	N/A	N/A	N/A	Yes	N/A	N/A	N/A
Mixture of alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl) propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl) propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl) propionyloxypoly(oxyethylene)	No	N/A	N/A	No	N/A	N/A	N/A
Fatty acids, C14-18 and C16-18-unsatd., maleated	No	N/A	N/A	No	N/A	N/A	N/A
Maleic anhydride	N/A	N/A	N/A	Yes	N/A	N/A	N/A

### Regulation (EC) No. 1272/2008 [CLP]

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
n-Butyl acetate	No	No	No	No	No	No	No
Ethyl acetate	No	No	No	No	No	No	No
Toluene	No	No	No	No	No	No	No
Xylene	No	No	No	No	No	No	No
2-Methoxy-1-methylethyl acetate	No	No	No	No	No	No	No
Propan-2-ol	No	No	No	No	No	No	No
Ethylbenzene	No	No	No	No	No	No	No
Mixture of alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl) propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl) propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl) propionyloxypoly(oxyethylene)	No	No	No	No	No	No	No
Fatty acids, C14-18 and C16-18-unsatd., maleated	No	No	No	No	No	No	No
Maleic anhydride	No	No	No	No	No	No	No

**Conclusion/Summary Regulation (EC) No. 1272/2008 [CLP]** : The product does not meet the criteria to be considered as a PBT or vPvB.

### 12.6 Endocrine disrupting properties

Not available.

**Conclusion/Summary [Product]** : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

## SECTION 12: Ecological information

### 12.7 Other adverse effects

No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** : Avoid release to the environment. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste.

**European waste catalogue (EWC)** : 08,01,11

#### Packaging

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3 	3 	3 	3 
14.4 Packing group	II	II	II	II
14.5 Environmental hazards	No.	Yes.	No.	No.

#### Additional information

**ADR/RID** : **Special provisions** 640 (C)  
**Tunnel code** (D/E)

**ADN** : The product is only regulated as an environmentally hazardous substance when transported in tank vessels.  
**Special provisions** 640 (C)

**14.6 Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Maritime transport in bulk according to IMO instruments** : Not relevant/applicable due to nature of the product.

## SECTION 15: Regulatory information

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

#### EU Regulation (EC) No. 1907/2006 (REACH)

##### Annex XIV - List of substances subject to authorisation

###### Annex XIV

None of the components are listed.

###### Substances of very high concern

None of the components are listed.

##### Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product/ingredient name	%	Designation [Usage]
SUPREMO AUFHELLEND 2025-05	≥90	3
Toluene	≥10 - ≤25	48

###### Labelling

##### Synthetic polymer microparticles - Designation 78

**Generic identity of polymer(s)** : 3901 - Polymers of ethylene.

**Total percentage of synthetic polymer microparticles** : 0.18%

The synthetic polymer microparticles supplied is subject to conditions laid down by entry 78 of Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council.

##### Other EU regulations

**Industrial emissions (integrated pollution prevention and control) - Air** : Not listed

**Industrial emissions (integrated pollution prevention and control) - Water** : Not listed

**Explosive precursors** : Not applicable.

##### Ozone depleting substances (EU 2024/590)

Not listed.

##### Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

##### Persistent Organic Pollutants

Not listed.

##### Seveso Directive

This product is controlled under the Seveso Directive.

###### Danger criteria

###### Category

P5c

##### National regulations

###### Austria

**VbF class** : Category 2

**Limitation of the use of organic solvents** : Permitted.

###### Belgium

###### Czech Republic

**Storage code** : I

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### Denmark

Fire class : I-1

Executive Order No. 1795/2015

Ingredient name	Annex I Section A	Annex I Section B
Propan-2-ol	Listed	-
Ethylbenzene	Listed	-

MAL-code : 4-3

Protection based on MAL : According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:

**General:** Gloves must be worn for all work that may result in soiling. Apron/coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required.

In all spraying operations in which there is return spray, respiratory protection with air supply and arm protectors/apron/coveralls/protective clothing must be worn as appropriate or as instructed.

MAL-code: 4-3

**Application:** When spraying in new\* booths if the operator is outside the spray zone. When using scraper or knife, brush, roller, etc. for pre- and post-treatments outside a closed facility, spray booth or spray cabin.

- Air-supplied half mask and eye protection must be worn.

When using scraper or knife, brush, roller, etc. for pre- and post-treatments in cabins or booths of the existing\* facility type, if the operator is inside the spray zone.

- Air-supplied half mask, coveralls and eye protection must be worn.

During downtimes, cleaning and repair in closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents.

- Air-supplied full mask and coveralls must be worn.

When spraying in existing\* spray booths, if the operator is outside the spray zone.

- Air-supplied full mask, arm protectors and apron must be worn.

During non-atomising spraying in existing\* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone.

- Air-supplied full mask must be worn.

During all spraying where atomisation occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cabin or booth.

- Air-supplied full mask, coveralls and hood must be worn.

**Drying:** Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc. must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.

**Polishing:** When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be

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worn.

**Caution** The regulations contain other stipulations in addition to the above.

\*See Regulations.

- Low-boiling liquids** : This product contains low-boiling point liquids. Any respiratory protective equipment should be air-fed.
- Restrictions on use** : Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At Work.
- List of undesirable substances** : Listed
- Carcinogenic waste** : Waste containers must be labeled: Contains a substance or substances regulated by Danish working environment legislation on cancer risks.

### Finland

### France

- Social Security Code, Articles L 461-1 to L 461-7** :
- |                                 |                |
|---------------------------------|----------------|
| n-Butyl acetate                 | RG 84          |
| Ethyl acetate                   | RG 84          |
| Toluene                         | RG 4bis, RG 84 |
| Xylene                          | RG 4bis, RG 84 |
| 2-Methoxy-1-methylethyl acetate | RG 84          |
| Propan-2-ol                     | RG 84          |
| Ethylbenzene                    | RG 84          |
| Maleic anhydride                | RG 66          |

- Reinforced medical surveillance** : Act of July 11, 1977 determining the list of activities which require reinforced medical surveillance: not applicable

### Germany

- Storage class (TRGS 510)** : 3

### Hazardous incident ordinance

This product is controlled under the Germany Hazardous Incident Ordinance.

### Danger criteria

Category	Reference number
P5c	1.2.5.3

- Hazard class for water** : 3

### Technical instruction on air quality control (TA Luft)

Number [Class]	Description	%
5.2.1	Total dust	10.3
5.2.5	Organic substances	89.7
5.2.5 [I]	Organic substances	82.8

### Italy

- D.Lgs. 152/06** : Not determined.

### Netherlands

### **Ministry of Social Affairs and Employment (SZW) - Carcinogenic substances and processes, mutagenic or reprotoxic substances**

Ingredient name	Carcinogen	Mutagen	Reproductive toxicity - Fertility	Reproductive toxicity - Development	Harmful via breastfeeding
tolueen	-	-	-	Development 2	-
xyleen	-	-	-	Development 2	-
Solvent naphtha (petroleum), light arom.	Listed	Listed	-	-	-

- Water Discharge Policy (ABM)** : Z(1) Non biodegradable substances with hazardous properties for humans and the environment (carcinogenicity/ mutagenicity/ reprotoxicity/ bioacumulative potential/ toxicity or persistence). Decontamination effort: Z

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### Norway

### Sweden

Flammable liquid class : 1  
(SRVFS 2005:10)

### Switzerland

VOC content : VOC (w/w): 82.9%

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

**15.2 Chemical safety assessment** : This product contains substances for which Chemical Safety Assessments are still required.

## SECTION 16: Other information

📌 Indicates information that has changed from previously issued version.

### **Abbreviations and acronyms**

: ATE = Acute Toxicity Estimate  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
EUH statement = CLP-specific Hazard statement  
N/A = Not available  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
RRN = REACH Registration Number  
SGG = Segregation Group  
vPvB = Very Persistent and Very Bioaccumulative

### **Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

Classification	Justification
Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373	On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method

### **Full text of abbreviated H statements**

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

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H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH071	Corrosive to the respiratory tract.

### [Full text of classifications \[CLP/GHS\]](#)

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Resp. Sens. 1	RESPIRATORY SENSITISATION - Category 1
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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**Version** : 1

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All variants

### [Notice to reader](#)

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

