

# SAFETY DATA SHEET



TEKNODUR 0250

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

### 1.1 Product identifier

Product name : TEKNODUR 0250

### 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. 3, H226

Skin Irrit. 2, H315

Eye Irrit. 2, H319

Skin Sens. 1, H317

STOT SE 3, H335

STOT SE 3, H336

STOT RE 2, H373

Asp. Tox. 1, H304

Aquatic Chronic 3, H412

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 :

H226 - Flammable liquid and vapour.

H304 - May be fatal if swallowed and enters airways.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H335 - May cause respiratory irritation.

H336 - May cause drowsiness or dizziness.

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

H412 - Harmful to aquatic life with long lasting effects.

## SECTION 2: Hazards identification

### Precautionary statements

|                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Prevention</b>                                                                                                                         | : P280 - Wear protective gloves. Wear eye or face protection.<br>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>P260 - Do not breathe vapour.                                                                                                                                                                                                                                                                             |
| <b>Response</b>                                                                                                                           | : P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.                                                                                                                                                                                                                                                                                                                                                                                                           |
| <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: 2-Methoxy-1-methylethyl acetate; Solvent naphtha (petroleum), light aromatic; Xylene and 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) |
| <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    |
|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|---------|
|  -Methoxy-1-methylethyl acetate | REACH #:<br>01-2119475791-29<br>EC: 203-603-9<br>CAS: 108-65-6<br>Index: 607-195-00-7   | ≥10 - ≤25 | Flam. Liq. 3, H226<br>STOT SE 3, H336                                                                                                                                                                           | -                                                                 | [1] [2] |
| Solvent naphtha (petroleum), light aromatic                                                                       | REACH #:<br>01-2119455851-35<br>EC: 265-199-0<br>CAS: 64742-95-6<br>Index: 649-356-00-4 | ≥10 - ≤16 | Flam. Liq. 3, H226<br>STOT SE 3, H335<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411<br>EUH066                                                                                              | -                                                                 | [1]     |
| Xylene                                                                                                            | REACH #:<br>01-2119488216-32<br>EC: 215-535-7<br>CAS: 1330-20-7<br>Index: 601-022-00-9  | ≥10 - ≤25 | Flam. Liq. 3, H226<br>Acute Tox. 4, H312<br>Acute Tox. 4, H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>STOT RE 2, H373 (oral, inhalation)<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3, | ATE [Dermal] = 1100 mg/kg<br>ATE [Inhalation (vapours)] = 11 mg/l | [1] [2] |

## SECTION 3: Composition/information on ingredients

|                                                                                                                                                                                                                                                                                                 |                                                                                       |       |                                                                                                                                                                                                                                                                             |                                      |         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------|
| n-Butyl acetate                                                                                                                                                                                                                                                                                 | REACH #:<br>01-2119485493-29<br>EC: 204-658-1<br>CAS: 123-86-4<br>Index: 607-025-00-1 | ≤10   | H412<br>Flam. Liq. 3, H226<br>STOT SE 3, H336<br>EUH066                                                                                                                                                                                                                     | -                                    | [1] [2] |
| Ethylbenzene                                                                                                                                                                                                                                                                                    | REACH #:<br>01-2119489370-35<br>EC: 202-849-4<br>CAS: 100-41-4<br>Index: 601-023-00-4 | ≤3    | Flam. Liq. 2, H225<br>Acute Tox. 4, H332<br>STOT RE 2, H373<br>(hearing organs) (oral, inhalation)<br>Asp. Tox. 1, H304<br>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<br>Index: 607-176-00-3                                                  | ≤1.3  | Skin Sens. 1, H317<br>Aquatic Chronic 2, H411                                                                                                                                                                                                                               | -                                    | [1]     |
| Reaction mass of Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate                                                                                                                                                                         | REACH #:<br>01-2119491304-40<br>EC: 915-687-0<br>CAS: 1065336-91-5                    | ≤0.68 | Skin Sens. 1A, H317<br>Repr. 2, H361f<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410                                                                                                                                                                                   | M [Acute] = 1<br>M [Chronic] = 1     | [1]     |
| Styrene                                                                                                                                                                                                                                                                                         | REACH #:<br>01-2119457861-32<br>EC: 202-851-5<br>CAS: 100-42-5                        | <1    | Flam. Liq. 3, H226<br>Acute Tox. 4, H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Repr. 2, H361<br>STOT SE 3, H335<br>STOT RE 1, H372<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3, H412<br><b>See Section 16 for the full text of the H statements declared above.</b> | ATE [Inhalation (gases)] = 2770 ppm  | [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

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.
- 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** : Get medical attention immediately. Call a poison center or physician. 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. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. 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:  
respiratory tract irritation  
coughing  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness
- Ingestion** : Adverse symptoms may include the following:  
nausea or vomiting

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

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- 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** : 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. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous combustion products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
metal oxide/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). Water polluting material. May be harmful to the environment if released in large quantities.

### 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.
- 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.

## SECTION 6: Accidental release measures

- 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. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not swallow. Avoid release to the environment. 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. 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

## SECTION 8: Exposure controls/personal protection

| Product/ingredient name         | Exposure limit values                                                                                                                                                                                                                       |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2-Methoxy-1-methylethyl acetate | <b>Regulation on Limit Values - MAC (Austria, 12/2024)</b> Absorbed through skin.<br>TWA 8 hours: 50 ppm.<br>TWA 8 hours: 275 mg/m³.<br>CEIL 5 minutes: 100 ppm 8 times per shift.<br>CEIL 5 minutes: 550 mg/m³ 8 times per shift.          |
| Xylene                          | <b>Regulation on Limit Values - MAC (Austria, 12/2024) [Xylol (alle Isomeren, rein)]</b><br>PEAK 15 minutes: 442 mg/m³ 4 times per shift.<br>TWA 8 hours: 50 ppm.<br>PEAK 15 minutes: 100 ppm 4 times per shift.<br>TWA 8 hours: 221 mg/m³. |
| n-Butyl acetate                 | <b>Regulation on Limit Values - MAC (Austria, 12/2024) [Butylacetat alle Isomeren außer tert-Butylacet]</b><br>CEIL: 480 mg/m³.<br>CEIL: 100 ppm.<br>TWA 8 hours: 241 mg/m³.<br>TWA 8 hours: 50 ppm.                                        |
| Ethylbenzene                    | <b>Regulation on Limit Values - MAC (Austria, 12/2024)</b> Absorbed through skin.<br>TWA 8 hours: 100 ppm.<br>TWA 8 hours: 440 mg/m³.<br>CEIL 5 minutes: 200 ppm 8 times per shift.<br>CEIL 5 minutes: 880 mg/m³ 8 times per shift.         |
| Styrene                         | <b>Regulation on Limit Values - MAC (Austria, 12/2024) d.</b><br>TWA 8 hours: 20 ppm.<br>TWA 8 hours: 85 mg/m³.<br>PEAK 15 minutes: 80 ppm 4 times per shift.<br>PEAK 15 minutes: 340 mg/m³ 4 times per shift.                              |
| 2-Methoxy-1-methylethyl acetate | <b>Limit values (Belgium, 12/2023)</b> Absorbed through skin.<br>TWA 8 hours: 50 ppm.<br>TWA 8 hours: 275 mg/m³.<br>STEL 15 minutes: 100 ppm.<br>STEL 15 minutes: 550 mg/m³.                                                                |
| Xylene                          | <b>Limit values (Belgium, 12/2023) [Xyleen]</b> Absorbed through skin.<br>TWA 8 hours: 50 ppm.<br>TWA 8 hours: 221 mg/m³.<br>STEL 15 minutes: 100 ppm.<br>STEL 15 minutes: 442 mg/m³.                                                       |
| n-Butyl acetate                 | <b>Limit values (Belgium, 12/2023) [butylacetaat]</b><br>STEL 15 minutes: 712 mg/m³.<br>STEL 15 minutes: 150 ppm.<br>TWA 8 hours: 238 mg/m³.<br>TWA 8 hours: 50 ppm.                                                                        |
| Ethylbenzene                    | <b>Limit values (Belgium, 12/2023)</b> Absorbed through skin.<br>TWA 8 hours: 20 ppm.<br>TWA 8 hours: 87 mg/m³.<br>STEL 15 minutes: 125 ppm.<br>STEL 15 minutes: 551 mg/m³.                                                                 |
| Styrene                         | <b>Limit values (Belgium, 12/2023)</b> Absorbed through skin.<br>TWA 8 hours: 25 ppm.<br>TWA 8 hours: 108 mg/m³.<br>STEL 15 minutes: 50 ppm.<br>STEL 15 minutes: 216 mg/m³.                                                                 |

## SECTION 8: Exposure controls/personal protection

|                                             |                                                                                                                                                                                                                                                                                                                    |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2-Methoxy-1-methylethyl acetate             | Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Absorbed through skin.<br>Limit value 8 hours: 275 mg/m <sup>3</sup> .<br>Limit value 15 minutes: 550 mg/m <sup>3</sup> .<br>Limit value 15 minutes: 100 ppm.<br>Limit value 8 hours: 50 ppm.           |
| Xylene                                      | Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) [Xylene] Absorbed through skin.<br>Limit value 8 hours: 221 mg/m <sup>3</sup> .<br>Limit value 15 minutes: 442 mg/m <sup>3</sup> .<br>Limit value 15 minutes: 100 ppm.<br>Limit value 8 hours: 50 ppm.  |
| n-Butyl acetate                             | Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024)<br>Limit value 8 hours: 241 mg/m <sup>3</sup> .<br>Limit value 15 minutes: 723 mg/m <sup>3</sup> .<br>Limit value 15 minutes: 150 ppm.<br>Limit value 8 hours: 50 ppm.                                  |
| Ethylbenzene                                | Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Absorbed through skin.<br>Limit value 8 hours: 435 mg/m <sup>3</sup> .<br>Limit value 15 minutes: 545 mg/m <sup>3</sup> .                                                                               |
| Styrene                                     | Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024)<br>Limit value 15 minutes: 215 mg/m <sup>3</sup> .<br>Limit value 8 hours: 85 mg/m <sup>3</sup> .                                                                                                       |
| 2-Methoxy-1-methylethyl acetate             | Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) Absorbed through skin.<br>STELV 15 minutes: 550 mg/m <sup>3</sup> .<br>STELV 15 minutes: 100 ppm.<br>ELV 8 hours: 275 mg/m <sup>3</sup> .<br>ELV 8 hours: 50 ppm.          |
| Solvent naphtha (petroleum), light aromatic | Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia)<br>ELV: 100 ppm.<br>ELV: 400 mg/m <sup>3</sup> .                                                                                                                                    |
| Xylene                                      | Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) [ksilen] Absorbed through skin.<br>STELV 15 minutes: 442 mg/m <sup>3</sup> .<br>STELV 15 minutes: 100 ppm.<br>ELV 8 hours: 221 mg/m <sup>3</sup> .<br>ELV 8 hours: 50 ppm. |
| n-Butyl acetate                             | Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023)<br>STELV 15 minutes: 723 mg/m <sup>3</sup> .<br>STELV 15 minutes: 150 ppm.<br>ELV 8 hours: 241 mg/m <sup>3</sup> .<br>ELV 8 hours: 50 ppm.                                 |
| Ethylbenzene                                | Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) Absorbed through skin.<br>STELV 15 minutes: 884 mg/m <sup>3</sup> .<br>STELV 15 minutes: 200 ppm.<br>ELV 8 hours: 442 mg/m <sup>3</sup> .<br>ELV 8 hours: 100 ppm.         |
| Styrene                                     | Ordinance on the protection of workers from exposure to                                                                                                                                                                                                                                                            |

## SECTION 8: Exposure controls/personal protection

|                                             |                                                                                                                                                                                                                                                                                    |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                             | <p><b>hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023)</b> Absorbed through skin.</p> <p>STELV 15 minutes: 1080 mg/m<sup>3</sup>.</p> <p>STELV 15 minutes: 250 ppm.</p> <p>ELV 8 hours: 430 mg/m<sup>3</sup>.</p> <p>ELV 8 hours: 100 ppm.</p>      |
| ☑Methoxy-1-methylethyl acetate              | <p><b>Department of labour inspection (Cyprus, 7/2021)</b> Absorbed through skin.</p> <p>STEL 15 minutes: 100 ppm.</p> <p>STEL 15 minutes: 550 mg/m<sup>3</sup>.</p> <p>TWA 8 hours: 50 ppm.</p> <p>TWA 8 hours: 275 mg/m<sup>3</sup>.</p>                                         |
| Xylene                                      | <p><b>Department of labour inspection (Cyprus, 7/2021) [Ξυλένιο, μικτά ισομερή, καθαρά]</b> Absorbed through skin.</p> <p>STEL 15 minutes: 100 ppm.</p> <p>STEL 15 minutes: 442 mg/m<sup>3</sup>.</p> <p>TWA 8 hours: 50 ppm.</p> <p>TWA 8 hours: 221 mg/m<sup>3</sup>.</p>        |
| n-Butyl acetate                             | <p><b>Department of labour inspection (Cyprus, 7/2021)</b></p> <p>STEL 15 minutes: 150 ppm.</p> <p>STEL 15 minutes: 723 mg/m<sup>3</sup>.</p> <p>TWA 8 hours: 50 ppm.</p> <p>TWA 8 hours: 241 mg/m<sup>3</sup>.</p>                                                                |
| Ethylbenzene                                | <p><b>Department of labour inspection (Cyprus, 7/2021)</b> Absorbed through skin.</p> <p>STEL 15 minutes: 884 mg/m<sup>3</sup>.</p> <p>TWA 8 hours: 100 ppm.</p> <p>TWA 8 hours: 442 mg/m<sup>3</sup>.</p> <p>STEL 15 minutes: 200 ppm.</p>                                        |
| ☑Methoxy-1-methylethyl acetate              | <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>              |
| Solvent naphtha (petroleum), light aromatic | <p><b>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) [nafta solventní]</b></p> <p>TWA 8 hours: 200 mg/m<sup>3</sup>.</p> <p>STEL 15 minutes: 1000 mg/m<sup>3</sup>.</p>                                                                               |
| Xylene                                      | <p><b>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) [xylen]</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: 400 mg/m<sup>3</sup>.</p> <p>STEL 15 minutes: 90.66 ppm.</p> |
| n-Butyl acetate                             | <p><b>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023)</b></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> <p>TWA 8 hours: 50 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>        |
| Styrene                                     | <p><b>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023)</b></p> <p>TWA 8 hours: 100 mg/m<sup>3</sup>.</p> <p>TWA 8 hours: 23 ppm.</p> <p>STEL 15 minutes: 400 mg/m<sup>3</sup>.</p> <p>STEL 15 minutes: 92 ppm.</p>                                      |

## SECTION 8: Exposure controls/personal protection

 Methoxy-1-methylethyl acetate

**Working Environment Authority (Denmark, 12/2024)**  
**[2-methoxy-1-methylethylacetat]** Absorbed through skin.  
 TWA 8 hours: 50 ppm.  
 TWA 8 hours: 275 mg/m<sup>3</sup>.  
 STEL 15 minutes: 550 mg/m<sup>3</sup>.  
 STEL 15 minutes: 100 ppm.

Xylene

**Working Environment Authority (Denmark, 12/2024) [xylen, alle isomere]** Absorbed through skin.  
 TWA 8 hours: 25 ppm.  
 TWA 8 hours: 109 mg/m<sup>3</sup>.  
 STEL 15 minutes: 442 mg/m<sup>3</sup>.  
 STEL 15 minutes: 100 ppm.

n-Butyl acetate

**Working Environment Authority (Denmark, 12/2024)**  
**[butylacetat, alle isomerer]**  
 TWA 8 hours: 50 ppm.  
 TWA 8 hours: 241 mg/m<sup>3</sup>.  
 STEL 15 minutes: 723 mg/m<sup>3</sup>.  
 STEL 15 minutes: 150 ppm.

Ethylbenzene

**Working Environment Authority (Denmark, 12/2024) K.**  
 Absorbed through skin.  
 TWA 8 hours: 50 ppm.  
 TWA 8 hours: 217 mg/m<sup>3</sup>.  
 STEL 15 minutes: 434 mg/m<sup>3</sup>.  
 STEL 15 minutes: 100 ppm.

Styrene

**Working Environment Authority (Denmark, 12/2024) K.**  
 Absorbed through skin.  
 CEIL: 25 ppm.  
 CEIL: 105 mg/m<sup>3</sup>.

 Methoxy-1-methylethyl acetate

**Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024)** 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.

Xylene

**Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) [ksüleen]** 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>.

n-Butyl acetate

**Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024)**  
 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>.

Ethylbenzene

**Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024)** 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.

Styrene

**Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024)** Absorbed through skin.  
 TWA 8 hours: 90 mg/m<sup>3</sup>.  
 TWA 8 hours: 20 ppm.  
 STEL 15 minutes: 200 mg/m<sup>3</sup>.  
 STEL 15 minutes: 50 ppm.

## SECTION 8: Exposure controls/personal protection

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2-Methoxy-1-methylethyl acetate             | <p><b>EU OEL (Europe, 1/2022)</b> Absorbed through skin.<br/> TWA 8 hours: 50 ppm.<br/> TWA 8 hours: 275 mg/m<sup>3</sup>.<br/> STEL 15 minutes: 100 ppm.<br/> STEL 15 minutes: 550 mg/m<sup>3</sup>.</p>                                                                                                                                                                                                                                                                                                                                        |
| Xylene                                      | <p><b>EU OEL (Europe, 1/2022) [xylene, mixed isomers]</b> Absorbed through skin.<br/> TWA 8 hours: 50 ppm.<br/> TWA 8 hours: 221 mg/m<sup>3</sup>.<br/> STEL 15 minutes: 100 ppm.<br/> STEL 15 minutes: 442 mg/m<sup>3</sup>.</p>                                                                                                                                                                                                                                                                                                                |
| n-Butyl acetate                             | <p><b>EU OEL (Europe, 1/2022)</b><br/> STEL 15 minutes: 150 ppm.<br/> STEL 15 minutes: 723 mg/m<sup>3</sup>.<br/> TWA 8 hours: 241 mg/m<sup>3</sup>.<br/> TWA 8 hours: 50 ppm.</p>                                                                                                                                                                                                                                                                                                                                                               |
| Ethylbenzene                                | <p><b>EU OEL (Europe, 1/2022)</b> Absorbed through skin.<br/> TWA 8 hours: 100 ppm.<br/> TWA 8 hours: 442 mg/m<sup>3</sup>.<br/> STEL 15 minutes: 200 ppm.<br/> STEL 15 minutes: 884 mg/m<sup>3</sup>.</p>                                                                                                                                                                                                                                                                                                                                       |
| 2-Methoxy-1-methylethyl acetate             | <p><b>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021)</b> Absorbed through skin.<br/> TWA 8 hours: 50 ppm.<br/> TWA 8 hours: 270 mg/m<sup>3</sup>.<br/> STEL 15 minutes: 100 ppm.<br/> STEL 15 minutes: 550 mg/m<sup>3</sup>.</p>                                                                                                                                                                                                                                                                                |
| Solvent naphtha (petroleum), light aromatic | <p><b>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2020)</b><br/> TWA 8 hours: 100 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.<br/> STEL 15 minutes: 440 mg/m<sup>3</sup>.<br/> TWA 8 hours: 220 mg/m<sup>3</sup>.<br/> TWA 8 hours: 50 ppm.<br/> STEL 15 minutes: 100 ppm.</p>                                                                                                                                                                                                                                                                     |
| n-Butyl acetate                             | <p><b>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021)</b><br/> TWA 8 hours: 150 ppm.<br/> TWA 8 hours: 720 mg/m<sup>3</sup>.<br/> STEL 15 minutes: 200 ppm.<br/> STEL 15 minutes: 960 mg/m<sup>3</sup>.</p>                                                                                                                                                                                                                                                                                                      |
| Ethylbenzene                                | <p><b>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021)</b> Absorbed through skin.<br/> TWA 8 hours: 50 ppm.<br/> TWA 8 hours: 220 mg/m<sup>3</sup>.<br/> STEL 15 minutes: 200 ppm.<br/> STEL 15 minutes: 880 mg/m<sup>3</sup>.</p>                                                                                                                                                                                                                                                                                |
| Styrene                                     | <p><b>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021)</b> Ototoxicant.<br/> TWA 8 hours: 20 ppm.<br/> TWA 8 hours: 86 mg/m<sup>3</sup>.<br/> STEL 15 minutes: 100 ppm.<br/> STEL 15 minutes: 430 mg/m<sup>3</sup>.</p>                                                                                                                                                                                                                                                                                           |
| 2-Methoxy-1-methylethyl acetate             | <p><b>Ministry of Labor (France, 6/2024)</b> Absorbed through skin.<br/> STEL 15 minutes: 550 mg/m<sup>3</sup>. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)<br/> STEL 15 minutes: 100 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)<br/> TWA 8 hours: 275 mg/m<sup>3</sup>. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)<br/> TWA 8 hours: 50 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)</p> |

## SECTION 8: Exposure controls/personal protection

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Solvent naphtha (petroleum), light aromatic | <b>Ministry of Labor (France, 6/2024) [hydrocarbures en C6-C12]</b><br>TWA 8 hours: 1000 mg/m <sup>3</sup> . Form: Vapour. Notes: Permissible limit values (circulars)<br>STEL 15 minutes: 1500 mg/m <sup>3</sup> . Form: Vapour. Notes: Permissible limit values (circulars)                                                                                                                                                                                                                                                                                          |
| Xylene                                      | <b>Ministry of Labor (France, 6/2024) [xylènes, isomères mixtes, purs]</b> Absorbed through skin.<br>STEL 15 minutes: 442 mg/m <sup>3</sup> . Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)<br>STEL 15 minutes: 100 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)<br>TWA 8 hours: 221 mg/m <sup>3</sup> . Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)<br>TWA 8 hours: 50 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) |
| n-Butyl acetate                             | <b>Ministry of Labor (France, 6/2024)</b><br>TWA 8 hours: 50 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)<br>TWA 8 hours: 241 mg/m <sup>3</sup> . Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)<br>STEL 15 minutes: 150 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)<br>STEL 15 minutes: 723 mg/m <sup>3</sup> . Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)                                                         |
| Ethylbenzene                                | <b>Ministry of Labor (France, 6/2024)</b> Absorbed through skin.<br>TWA 8 hours: 20 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)<br>TWA 8 hours: 88.4 mg/m <sup>3</sup> . Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)<br>STEL 15 minutes: 442 mg/m <sup>3</sup> . Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)<br>STEL 15 minutes: 100 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)                                 |
| Styrene                                     | <b>Ministry of Labor (France, 6/2024)</b> Repr 2. Absorbed through skin , Ototoxicant.<br>TWA 8 hours: 23.3 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)<br>TWA 8 hours: 100 mg/m <sup>3</sup> . Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)<br>STEL 15 minutes: 200 mg/m <sup>3</sup> . Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)<br>STEL 15 minutes: 46.6 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)         |
| 2-Methoxy-1-methylethyl acetate             | <b>TRGS 900 OEL (Germany, 6/2024)</b><br>TWA 8 hours: 270 mg/m <sup>3</sup> .<br>PEAK 15 minutes: 270 mg/m <sup>3</sup> .<br>TWA 8 hours: 50 ppm.<br>PEAK 15 minutes: 50 ppm.<br><b>DFG MAC-values list (Germany, 7/2024)</b> Develop C.<br>TWA 8 hours: 50 ppm.<br>PEAK 15 minutes: 50 ppm 4 times per shift [Interval: 1 hour].<br>TWA 8 hours: 270 mg/m <sup>3</sup> .<br>PEAK 15 minutes: 270 mg/m <sup>3</sup> 4 times per shift [Interval: 1 hour].                                                                                                              |
| Xylene                                      | <b>TRGS 900 OEL (Germany, 6/2024) [Xylo]</b> Absorbed through skin.<br>TWA 8 hours: 220 mg/m <sup>3</sup> .<br>PEAK 15 minutes: 440 mg/m <sup>3</sup> .<br>TWA 8 hours: 50 ppm.<br>PEAK 15 minutes: 100 ppm.<br><b>DFG MAC-values list (Germany, 7/2024) [Xylene]</b> Develop D.<br>Absorbed through skin.<br>TWA 8 hours: 50 ppm.<br>PEAK 15 minutes: 100 ppm 4 times per shift [Interval: 1 hour].                                                                                                                                                                   |

## SECTION 8: Exposure controls/personal protection

n-Butyl acetate

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].  
**TRGS 900 OEL (Germany, 6/2024)**  
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.

**DFG MAC-values list (Germany, 7/2024)** 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].

Ethylbenzene

**TRGS 900 OEL (Germany, 6/2024)** 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.

**DFG MAC-values list (Germany, 7/2024)** 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.

Styrene

**TRGS 900 OEL (Germany, 6/2024)**

TWA 8 hours: 86 mg/m<sup>3</sup>.  
PEAK 15 minutes: 172 mg/m<sup>3</sup>.  
TWA 8 hours: 20 ppm.  
PEAK 15 minutes: 40 ppm.

**DFG MAC-values list (Germany, 7/2024)** Carc 5, Develop C.

TWA 8 hours: 20 ppm.  
PEAK 15 minutes: 40 ppm 4 times per shift [Interval: 1 hour].  
TWA 8 hours: 86 mg/m<sup>3</sup>.  
PEAK 15 minutes: 172 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour].

-Methoxy-1-methylethyl acetate

**Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024)** 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>.

Xylene

**Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024)** [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>.

n-Butyl acetate

**Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024)**

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>.

Ethylbenzene

**Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024)**

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>.

Styrene

**Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024)**

TWA 8 hours: 100 ppm.  
TWA 8 hours: 425 mg/m<sup>3</sup>.  
STEL 15 minutes: 250 ppm.

## SECTION 8: Exposure controls/personal protection

2-Methoxy-1-methylethyl acetate

STEL 15 minutes: 1050 mg/m<sup>3</sup>.

**5/2020. (II. 6.) ITM Decree (Hungary, 1/2025)**

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.

Xylene

**5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) [xilol izomerek keveréke]** Absorbed through skin.

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.

n-Butyl acetate

**5/2020. (II. 6.) ITM Decree (Hungary, 1/2025)** Sensitiser.

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.

Ethylbenzene

**5/2020. (II. 6.) ITM Decree (Hungary, 1/2025)** Absorbed through skin.

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.

Styrene

**5/2020. (II. 6.) ITM Decree (Hungary, 1/2025)**

TWA 8 hours: 86 mg/m<sup>3</sup>.

PEAK 15 minutes: 172 mg/m<sup>3</sup>.

PEAK 15 minutes: 40 ppm.

TWA 8 hours: 20 ppm.

2-Methoxy-1-methylethyl acetate

**Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024)**

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.

Xylene

**Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024)**

**[Xýlen, allir ísómerar]** 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.

n-Butyl acetate

**Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024)**

**[bútýlasetat, allir ísómerar]**

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.

Ethylbenzene

**Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024)**

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.

Styrene

**Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024)**

Absorbed through skin.

STEL 15 minutes: 105 mg/m<sup>3</sup>.

STEL 15 minutes: 25 ppm.

## SECTION 8: Exposure controls/personal protection

|                                 |                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2-Methoxy-1-methylethyl acetate | <p><b>NAOSH (Ireland, 4/2024)</b> Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values</p> <p>OELV 8 hours: 50 ppm.<br/>OELV 8 hours: 275 mg/m<sup>3</sup>.<br/>OELV 15 minutes: 100 ppm.<br/>OELV 15 minutes: 550 mg/m<sup>3</sup>.</p>                                                                                                |
| Xylene                          | <p><b>NAOSH (Ireland, 4/2024) [xylene]</b> Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values</p> <p>OELV 8 hours: 50 ppm.<br/>OELV 8 hours: 221 mg/m<sup>3</sup>.<br/>OELV 15 minutes: 100 ppm.<br/>OELV 15 minutes: 442 mg/m<sup>3</sup>.</p>                                                                                       |
| n-Butyl acetate                 | <p><b>NAOSH (Ireland, 4/2024)</b> Notes: EU derived Occupational Exposure Limit Values</p> <p>OELV 8 hours: 50 ppm.<br/>OELV 8 hours: 241 mg/m<sup>3</sup>.<br/>OELV 15 minutes: 150 ppm.<br/>OELV 15 minutes: 723 mg/m<sup>3</sup>.</p>                                                                                                                       |
| Ethylbenzene                    | <p><b>NAOSH (Ireland, 4/2024)</b> Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values</p> <p>OELV 8 hours: 100 ppm.<br/>OELV 8 hours: 442 mg/m<sup>3</sup>.<br/>OELV 15 minutes: 200 ppm.<br/>OELV 15 minutes: 884 mg/m<sup>3</sup>.</p>                                                                                               |
| Styrene                         | <p><b>NAOSH (Ireland, 4/2024)</b> Notes: Advisory Occupational Exposure Limit Values (OELVs)</p> <p>OELV 8 hours: 20 ppm.<br/>OELV 8 hours: 85 mg/m<sup>3</sup>.<br/>OELV 15 minutes: 40 ppm.<br/>OELV 15 minutes: 170 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.</p> <p>Limit value 8 hours: 50 ppm.<br/>Limit value 8 hours: 275 mg/m<sup>3</sup>.<br/>Short Term 15 minutes: 100 ppm.<br/>Short Term 15 minutes: 550 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) [xylene, isomeri misti, puro]</b> Absorbed through skin.</p> <p>Limit value 8 hours: 50 ppm.<br/>Limit value 8 hours: 221 mg/m<sup>3</sup>.<br/>Short Term 15 minutes: 100 ppm.<br/>Short Term 15 minutes: 442 mg/m<sup>3</sup>.</p> |
| n-Butyl acetate                 | <p><b>Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 9/2024)</b></p> <p>Short Term 15 minutes: 150 ppm.<br/>Short Term 15 minutes: 723 mg/m<sup>3</sup>.<br/>Limit value 8 hours: 50 ppm.<br/>Limit value 8 hours: 241 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> <p>Limit value 8 hours: 100 ppm.<br/>Limit value 8 hours: 442 mg/m<sup>3</sup>.<br/>Short Term 15 minutes: 200 ppm.<br/>Short Term 15 minutes: 884 mg/m<sup>3</sup>.</p>                              |

## SECTION 8: Exposure controls/personal protection

|                                 |                                                                                                                                                                                                                                                                            |
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| 2-Methoxy-1-methylethyl acetate | <b>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)</b><br>Absorbed through skin.<br>TWA 8 hours: 50 ppm.<br>TWA 8 hours: 275 mg/m <sup>3</sup> .<br>STEL 15 minutes: 100 ppm.<br>STEL 15 minutes: 550 mg/m <sup>3</sup> .                                      |
| Xylene                          | <b>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)</b><br><b>[Ksilols]</b> Absorbed through skin.<br>TWA 8 hours: 221 mg/m <sup>3</sup> .<br>TWA 8 hours: 50 ppm.<br>STEL 15 minutes: 100 ppm.<br>STEL 15 minutes: 442 mg/m <sup>3</sup> .                     |
| n-Butyl acetate                 | <b>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)</b><br>TWA 8 hours: 241 mg/m <sup>3</sup> .<br>STEL 15 minutes: 150 ppm.<br>STEL 15 minutes: 723 mg/m <sup>3</sup> .<br>TWA 8 hours: 50 ppm.                                                                |
| Ethylbenzene                    | <b>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)</b><br>Absorbed through skin.<br>TWA 8 hours: 442 mg/m <sup>3</sup> .<br>TWA 8 hours: 100 ppm.<br>STEL 15 minutes: 200 ppm.<br>STEL 15 minutes: 884 mg/m <sup>3</sup> .                                     |
| Styrene                         | <b>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)</b><br>TWA 8 hours: 10 mg/m <sup>3</sup> .<br>STEL 15 minutes: 30 mg/m <sup>3</sup> .                                                                                                                       |
| 2-Methoxy-1-methylethyl acetate | <b>Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)</b><br>Absorbed through skin.<br>TWA 8 hours: 250 mg/m <sup>3</sup> .<br>TWA 8 hours: 50 ppm.<br>STEL 15 minutes: 400 mg/m <sup>3</sup> .<br>STEL 15 minutes: 75 ppm.                                             |
| Xylene                          | <b>Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)</b><br><b>[ksilenas, mišrūs izomerai, grynas]</b> Absorbed through skin.<br>STEL 15 minutes: 442 mg/m <sup>3</sup> .<br>TWA 8 hours: 50 ppm.<br>STEL 15 minutes: 100 ppm.<br>TWA 8 hours: 221 mg/m <sup>3</sup> . |
| n-Butyl acetate                 | <b>Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)</b><br>TWA 8 hours: 241 mg/m <sup>3</sup> .<br>TWA 8 hours: 50 ppm.<br>STEL 15 minutes: 723 mg/m <sup>3</sup> .<br>STEL 15 minutes: 150 ppm.                                                                      |
| Ethylbenzene                    | <b>Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)</b><br>Absorbed through skin.<br>TWA 8 hours: 442 mg/m <sup>3</sup> .<br>TWA 8 hours: 100 ppm.<br>STEL 15 minutes: 884 mg/m <sup>3</sup> .<br>STEL 15 minutes: 200 ppm.                                           |
| Styrene                         | <b>Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)</b><br>Absorbed through skin.<br>TWA 8 hours: 90 mg/m <sup>3</sup> .<br>TWA 8 hours: 20 ppm.<br>STEL 15 minutes: 200 mg/m <sup>3</sup> .<br>STEL 15 minutes: 50 ppm.                                              |
| 2-Methoxy-1-methylethyl acetate | <b>Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021)</b> Absorbed through skin.<br>TWA 8 hours: 50 ppm.<br>TWA 8 hours: 275 mg/m <sup>3</sup> .<br>STEL 15 minutes: 100 ppm.<br>STEL 15 minutes: 550 mg/m <sup>3</sup> .                          |
| Xylene                          | <b>Grand-Duchy Regulation 2016. Chemical agents. Annex I</b>                                                                                                                                                                                                               |

## SECTION 8: Exposure controls/personal protection

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| n-Butyl acetate                 | <p><b>(Luxembourg, 3/2021) [xylène Isomères mixtes, pures]</b><br/> Absorbed through skin.<br/> TWA 8 hours: 50 ppm.<br/> TWA 8 hours: 221 mg/m<sup>3</sup>.<br/> STEL 15 minutes: 100 ppm.<br/> STEL 15 minutes: 442 mg/m<sup>3</sup>.</p> <p><b>Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021)</b><br/> STEL 15 minutes: 150 ppm.<br/> STEL 15 minutes: 723 mg/m<sup>3</sup>.<br/> TWA 8 hours: 50 ppm.<br/> TWA 8 hours: 241 mg/m<sup>3</sup>.</p> |
| Ethylbenzene                    | <p><b>Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021)</b> Absorbed through skin.<br/> TWA 8 hours: 100 ppm.<br/> TWA 8 hours: 442 mg/m<sup>3</sup>.<br/> STEL 15 minutes: 200 ppm.<br/> STEL 15 minutes: 884 mg/m<sup>3</sup>.</p>                                                                                                                                                                                                                     |
| 2-Methoxy-1-methylethyl acetate | <p><b>EU OEL (Europe, 1/2022)</b> Absorbed through skin.<br/> TWA 8 hours: 50 ppm.<br/> TWA 8 hours: 275 mg/m<sup>3</sup>.<br/> STEL 15 minutes: 100 ppm.<br/> STEL 15 minutes: 550 mg/m<sup>3</sup>.</p>                                                                                                                                                                                                                                                                         |
| Xylene                          | <p><b>EU OEL (Europe, 1/2022) [xylene, mixed isomers]</b> Absorbed through skin.<br/> TWA 8 hours: 50 ppm.<br/> TWA 8 hours: 221 mg/m<sup>3</sup>.<br/> STEL 15 minutes: 100 ppm.<br/> STEL 15 minutes: 442 mg/m<sup>3</sup>.</p>                                                                                                                                                                                                                                                 |
| n-Butyl acetate                 | <p><b>EU OEL (Europe, 1/2022)</b><br/> STEL 15 minutes: 150 ppm.<br/> STEL 15 minutes: 723 mg/m<sup>3</sup>.<br/> TWA 8 hours: 241 mg/m<sup>3</sup>.<br/> TWA 8 hours: 50 ppm.</p>                                                                                                                                                                                                                                                                                                |
| Ethylbenzene                    | <p><b>EU OEL (Europe, 1/2022)</b> Absorbed through skin.<br/> TWA 8 hours: 100 ppm.<br/> TWA 8 hours: 442 mg/m<sup>3</sup>.<br/> STEL 15 minutes: 200 ppm.<br/> STEL 15 minutes: 884 mg/m<sup>3</sup>.</p>                                                                                                                                                                                                                                                                        |
| 2-Methoxy-1-methylethyl acetate | <p><b>Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024)</b><br/> TWA 8 hours: 550 mg/m<sup>3</sup>.<br/> TWA 8 hours: 100 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.<br/> TWA 8 hours: 210 mg/m<sup>3</sup>.<br/> STEL 15 minutes: 442 mg/m<sup>3</sup>.<br/> STEL 15 minutes: 100 ppm.<br/> TWA 8 hours: 47.5 ppm.</p>                                                                                                                                                                              |
| n-Butyl acetate                 | <p><b>Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024)</b><br/> TWA 8 hours: 241 mg/m<sup>3</sup>.<br/> STEL 15 minutes: 723 mg/m<sup>3</sup>.<br/> STEL 15 minutes: 150 ppm.<br/> TWA 8 hours: 50 ppm.</p>                                                                                                                                                                                                                                    |
| Ethylbenzene                    | <p><b>Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024)</b> Absorbed through skin.<br/> TWA 8 hours: 215 mg/m<sup>3</sup>.<br/> STEL 15 minutes: 430 mg/m<sup>3</sup>.<br/> STEL 15 minutes: 97.3 ppm.<br/> TWA 8 hours: 48.6 ppm.</p>                                                                                                                                                                                                          |

## SECTION 8: Exposure controls/personal protection

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2-Methoxy-1-methylethyl acetate | <b>FOR-2011-12-06-1358 (Norway, 5/2024)</b> Absorbed through skin.<br>TWA 8 hours: 50 ppm.<br>TWA 8 hours: 270 mg/m <sup>3</sup> .                                                                                                                                                                                                                                                                                |
| Xylene                          | <b>FOR-2011-12-06-1358 (Norway, 5/2024) [xylene]</b> Absorbed through skin.<br>TWA 8 hours: 25 ppm.<br>TWA 8 hours: 108 mg/m <sup>3</sup> .                                                                                                                                                                                                                                                                       |
| n-Butyl acetate                 | <b>FOR-2011-12-06-1358 (Norway, 5/2024)</b><br>STEL 15 minutes: 723 mg/m <sup>3</sup> .<br>STEL 15 minutes: 150 ppm.<br>TWA 8 hours: 241 mg/m <sup>3</sup> .<br>TWA 8 hours: 50 ppm.                                                                                                                                                                                                                              |
| Ethylbenzene                    | <b>FOR-2011-12-06-1358 (Norway, 5/2024)</b> Carc. Absorbed through skin.<br>TWA 8 hours: 5 ppm.<br>TWA 8 hours: 20 mg/m <sup>3</sup> .                                                                                                                                                                                                                                                                            |
| Styrene                         | <b>FOR-2011-12-06-1358 (Norway, 5/2024)</b> Muta.<br>TWA 8 hours: 25 ppm.<br>TWA 8 hours: 105 mg/m <sup>3</sup> .                                                                                                                                                                                                                                                                                                 |
| 2-Methoxy-1-methylethyl acetate | <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.<br>TWA 8 hours: 260 mg/m <sup>3</sup> .<br>STEL 15 minutes: 520 mg/m <sup>3</sup> .                                             |
| Xylene                          | <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 through skin.<br>TWA 8 hours: 100 mg/m <sup>3</sup> .<br>STEL 15 minutes: 200 mg/m <sup>3</sup> . |
| n-Butyl acetate                 | <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><br>TWA 8 hours: 240 mg/m <sup>3</sup> .<br>STEL 15 minutes: 720 mg/m <sup>3</sup> .                                                                    |
| Ethylbenzene                    | <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.<br>TWA 8 hours: 200 mg/m <sup>3</sup> .<br>STEL 15 minutes: 400 mg/m <sup>3</sup> .                                             |
| Styrene                         | <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><br>TWA 8 hours: 50 mg/m <sup>3</sup> .<br>STEL 15 minutes: 100 mg/m <sup>3</sup> .                                                                     |
| 2-Methoxy-1-methylethyl acetate | <b>Decree-Law 24/2012 - Occupational exposure limits for chemical agents (Portugal, 6/2021)</b> Absorbed through skin.<br>STEL 15 minutes: 100 ppm.<br>STEL 15 minutes: 550 mg/m <sup>3</sup> .<br>TWA 8 hours: 50 ppm.<br>TWA 8 hours: 275 mg/m <sup>3</sup> .                                                                                                                                                   |
| Xylene                          | <b>Portuguese Institute of Quality (Portugal, 11/2014) [xileno]</b>                                                                                                                                                                                                                                                                                                                                               |

## SECTION 8: Exposure controls/personal protection

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| n-Butyl acetate                             | <p>(isómeros o, m &amp; p)] A4.<br/>TWA 8 hours: 100 ppm.<br/>STEL 15 minutes: 150 ppm.<br/><b>Decree-Law 24/2012 - Occupational exposure limits for chemical agents (Portugal, 6/2021)</b> [xilenos] Absorbed through skin.<br/>STEL 15 minutes: 100 ppm.<br/>STEL 15 minutes: 442 mg/m<sup>3</sup>.<br/>TWA 8 hours: 50 ppm.<br/>TWA 8 hours: 221 mg/m<sup>3</sup>.</p> <p><b>Portuguese Institute of Quality (Portugal, 11/2014)</b><br/>TWA 8 hours: 150 ppm.<br/>STEL 15 minutes: 200 ppm.<br/><b>Decree-Law 24/2012 - Occupational exposure limits for chemical agents (Portugal, 6/2021)</b><br/>STEL 15 minutes: 150 ppm.<br/>STEL 15 minutes: 723 mg/m<sup>3</sup>.<br/>TWA 8 hours: 50 ppm.<br/>TWA 8 hours: 241 mg/m<sup>3</sup>.</p> |
| Ethylbenzene                                | <p><b>Portuguese Institute of Quality (Portugal, 11/2014)</b> A3.<br/>TWA 8 hours: 20 ppm.<br/><b>Decree-Law 24/2012 - Occupational exposure limits for chemical agents (Portugal, 6/2021)</b> Absorbed through skin.<br/>STEL 15 minutes: 200 ppm.<br/>STEL 15 minutes: 884 mg/m<sup>3</sup>.<br/>TWA 8 hours: 100 ppm.<br/>TWA 8 hours: 442 mg/m<sup>3</sup>.</p>                                                                                                                                                                                                                                                                                                                                                                              |
| Styrene                                     | <p><b>Portuguese Institute of Quality (Portugal, 11/2014)</b> A4.<br/>TWA 8 hours: 20 ppm.<br/>STEL 15 minutes: 40 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.<br/>VLA 8 hours: 275 mg/m<sup>3</sup>.<br/>VLA 8 hours: 50 ppm.<br/>Short term 15 minutes: 550 mg/m<sup>3</sup>.<br/>Short term 15 minutes: 100 ppm.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Solvent naphtha (petroleum), light aromatic | <p><b>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024)</b> [Solvent nafta] Absorbed through skin.<br/>VLA 8 hours: 100 mg/m<sup>3</sup>.<br/>Short term 15 minutes: 200 mg/m<sup>3</sup>.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Xylene                                      | <p><b>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024)</b> [xilen] Absorbed through skin.<br/>VLA 8 hours: 221 mg/m<sup>3</sup>.<br/>VLA 8 hours: 50 ppm.<br/>Short term 15 minutes: 442 mg/m<sup>3</sup>.<br/>Short term 15 minutes: 100 ppm.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| n-Butyl acetate                             | <p><b>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024)</b><br/>VLA 8 hours: 241 mg/m<sup>3</sup>.<br/>VLA 8 hours: 50 ppm.<br/>Short term 15 minutes: 723 mg/m<sup>3</sup>.<br/>Short term 15 minutes: 150 ppm.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Ethylbenzene                                | <p><b>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024)</b> Absorbed through skin.<br/>VLA 8 hours: 442 mg/m<sup>3</sup>.<br/>VLA 8 hours: 100 ppm.<br/>Short term 15 minutes: 884 mg/m<sup>3</sup>.<br/>Short term 15 minutes: 200 ppm.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Styrene                                     | <p><b>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024)</b><br/>VLA 8 hours: 50 mg/m<sup>3</sup>.<br/>VLA 8 hours: 12 ppm.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## SECTION 8: Exposure controls/personal protection

 Methoxy-1-methylethyl acetate

Short term 15 minutes: 150 mg/m<sup>3</sup>.  
Short term 15 minutes: 35 ppm.

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

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.

Xylene

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

**[xylén, zmiešané izoméry]** 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).

n-Butyl acetate

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

**[butylacetáty]** 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).

Ethylbenzene

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

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.

Styrene

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

Inhalation sensitiser.

TWA 8 hours: 90 mg/m<sup>3</sup>.

TWA 8 hours: 20 ppm.

STEL 15 minutes: 200 mg/m<sup>3</sup>.

STEL 15 minutes: 50 ppm.

 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].

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].

n-Butyl acetate

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

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].

Ethylbenzene

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

Absorbed through skin.

## SECTION 8: Exposure controls/personal protection

Styrene

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].  
**Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)**  
Repr Dev 2.

TWA 8 hours: 86 mg/m<sup>3</sup>.  
TWA 8 hours: 20 ppm.  
KTV 15 minutes: 172 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: 40 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

2-Methoxy-1-methylethyl acetate

**National institute of occupational safety and health (Spain, 1/2024)** 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>.

Xylene

**National institute of occupational safety and health (Spain, 1/2024) [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>.

n-Butyl acetate

**National institute of occupational safety and health (Spain, 1/2024)**

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>.

Ethylbenzene

**National institute of occupational safety and health (Spain, 1/2024)** 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>.

Styrene

**National institute of occupational safety and health (Spain, 1/2024)**

TWA 8 hours: 20 ppm.  
TWA 8 hours: 86 mg/m<sup>3</sup>.  
STEL 15 minutes: 40 ppm.  
STEL 15 minutes: 172 mg/m<sup>3</sup>.

2-Methoxy-1-methylethyl acetate

**Work environment authority Regulation 2018:1 (Sweden, 11/2022)** 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>.

Xylene

**Work environment authority Regulation 2018:1 (Sweden, 11/2022) [xylene]** 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>.

n-Butyl acetate

**Work environment authority Regulation 2018:1 (Sweden, 11/2022) [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>.

## SECTION 8: Exposure controls/personal protection

|                                 |                                                                                                                                                                                                                                                          |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ethylbenzene                    | <b>Work environment authority Regulation 2018:1 (Sweden, 11/2022)</b> Absorbed through skin.<br>TWA 8 hours: 50 ppm.<br>TWA 8 hours: 220 mg/m <sup>3</sup> .<br>STEL 15 minutes: 200 ppm.<br>STEL 15 minutes: 884 mg/m <sup>3</sup> .                    |
| Styrene                         | <b>Work environment authority Regulation 2018:1 (Sweden, 11/2022)</b> Absorbed through skin , Ototoxicant.<br>TWA 8 hours: 10 ppm.<br>TWA 8 hours: 43 mg/m <sup>3</sup> .<br>STEL 15 minutes: 20 ppm.<br>STEL 15 minutes: 86 mg/m <sup>3</sup> .         |
| 2-Methoxy-1-methylethyl acetate | <b>SUVA (Switzerland, 1/2025)</b><br>TWA 8 hours: 50 ppm.<br>TWA 8 hours: 275 mg/m <sup>3</sup> .<br>STEL 15 minutes: 50 ppm.<br>STEL 15 minutes: 275 mg/m <sup>3</sup> .                                                                                |
| Xylene                          | <b>SUVA (Switzerland, 1/2025) [Xylol]</b> Absorbed through skin.<br>TWA 8 hours: 50 ppm.<br>TWA 8 hours: 220 mg/m <sup>3</sup> .<br>STEL 15 minutes: 100 ppm.<br>STEL 15 minutes: 440 mg/m <sup>3</sup> .                                                |
| n-Butyl acetate                 | <b>SUVA (Switzerland, 1/2025)</b><br>TWA 8 hours: 50 ppm.<br>TWA 8 hours: 240 mg/m <sup>3</sup> .<br>STEL 15 minutes: 150 ppm.<br>STEL 15 minutes: 720 mg/m <sup>3</sup> .                                                                               |
| Ethylbenzene                    | <b>SUVA (Switzerland, 1/2025)</b> Absorbed through skin , Ototoxicant.<br>TWA 8 hours: 50 ppm.<br>TWA 8 hours: 220 mg/m <sup>3</sup> .<br>STEL 15 minutes: 50 ppm.<br>STEL 15 minutes: 220 mg/m <sup>3</sup> .                                           |
| Styrene                         | <b>SUVA (Switzerland, 1/2025)</b> Ototoxicant.<br>TWA 8 hours: 20 ppm.<br>TWA 8 hours: 85 mg/m <sup>3</sup> .<br>STEL 15 minutes: 40 ppm.<br>STEL 15 minutes: 170 mg/m <sup>3</sup> .                                                                    |
| 2-Methoxy-1-methylethyl acetate | <b>EH40/2005 WELs (United Kingdom (UK), 1/2020)</b> Absorbed through skin.<br>STEL 15 minutes: 548 mg/m <sup>3</sup> .<br>TWA 8 hours: 50 ppm.<br>TWA 8 hours: 274 mg/m <sup>3</sup> .<br>STEL 15 minutes: 100 ppm.                                      |
| Xylene                          | <b>EH40/2005 WELs (United Kingdom (UK), 1/2020) [xylene, o-,m-, p- or mixed isomers]</b> Absorbed through skin.<br>STEL 15 minutes: 441 mg/m <sup>3</sup> .<br>TWA 8 hours: 50 ppm.<br>TWA 8 hours: 220 mg/m <sup>3</sup> .<br>STEL 15 minutes: 100 ppm. |
| n-Butyl acetate                 | <b>EH40/2005 WELs (United Kingdom (UK), 1/2020)</b><br>STEL 15 minutes: 966 mg/m <sup>3</sup> .<br>STEL 15 minutes: 200 ppm.<br>TWA 8 hours: 724 mg/m <sup>3</sup> .<br>TWA 8 hours: 150 ppm.                                                            |
| Ethylbenzene                    | <b>EH40/2005 WELs (United Kingdom (UK), 1/2020)</b> Absorbed through skin.<br>STEL 15 minutes: 552 mg/m <sup>3</sup> .<br>STEL 15 minutes: 125 ppm.<br>TWA 8 hours: 100 ppm.<br>TWA 8 hours: 441 mg/m <sup>3</sup> .                                     |
| Styrene                         | <b>EH40/2005 WELs (United Kingdom (UK), 1/2020)</b>                                                                                                                                                                                                      |

## SECTION 8: Exposure controls/personal protection

STEL 15 minutes: 250 ppm.  
TWA 8 hours: 100 ppm.  
TWA 8 hours: 430 mg/m<sup>3</sup>.  
STEL 15 minutes: 1080 mg/m<sup>3</sup>.

### Biological exposure indices

| Product/ingredient name    | Exposure indices                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Xylene                     | <b>VGU BEI (Austria, 9/2020) [Xylol]</b><br>BEI Fitness: 1000 µg/l, xylene [in blood]. Sampling time: one year.<br>BEI Fitness: 1.5 g/l, methylhippuric acid [in urine]. Sampling time: one year.                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| No exposure indices known. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Ethylbenzene               | <b>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Notes:</b><br>significant skin resorption possible<br>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.                                                                                                                                                                                                                                                                                                           |
| Styrene                    | <b>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024)</b><br>BLV: 600 mg/g creatinine, mandelic acid and phenylglyoxylic acid – in total [in urine]. Sampling time: in case of prolonged exposure – after several work shifts after the end of the exposure or the end of the work shift.                                                                                                                                                                                                                                                                                                 |
| Xylene                     | <b>Ordinance on the protection of workers from exposure to hazardous chemicals at work, biological limit values (Annex IV) (Croatia, 12/2023) [ksilen]</b><br>BEI: 1.5 mg/l, xylene [in blood]. Sampling time: at the end of the work shift.<br>BEI: 14.13 µmol/l, xylene [in blood]. Sampling time: at the end of the work shift.<br>BEI: 0.88 mol/mol creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift.<br>BEI: 1.5 g/g creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift.                                                                                         |
| Ethylbenzene               | <b>Ordinance on the protection of workers from exposure to hazardous chemicals at work, biological limit values (Annex IV) (Croatia, 12/2023)</b><br>BEI: 1.5 mg/l, ethylbenzene [in blood]. Sampling time: during exposure.<br>BEI: 14.1 µmol/l, ethylbenzene [in blood]. Sampling time: during exposure.<br>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.<br>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.                                                           |
| Styrene                    | <b>Ordinance on the protection of workers from exposure to hazardous chemicals at work, biological limit values (Annex IV) (Croatia, 12/2023)</b><br>BEI: 20 µg/l, styrene [in blood]. Sampling time: about 16 hours after the end of the work shift.<br>BEI: 0.19 µmol/l, styrene [in blood]. Sampling time: about 16 hours after the end of the work shift.<br>BEI: 0.18 mol/mol creatinine, phenyl glyoxylic [in urine]. Sampling time: at the end of the work shift.<br>BEI: 240 mg/g creatinine, phenyl glyoxylic [in urine]. Sampling time: at the end of the work shift.<br>BEI: 0.74 mol/mol creatinine, almond acid [in urine]. Sampling |

## SECTION 8: Exposure controls/personal protection

No exposure indices known.

Xylene

time: at the end of the work shift.

BEI: 1 g/g creatinine, almond acid [in urine]. Sampling time: at the end of the work shift.

BEI: 600 mg/g creatinine, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of the work shift (in case of chronic exposure in the middle of the working week).

### Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015) [Xyleny]

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.

Ethylbenzene

### Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015)

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.

Styrene

### Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015)

Biological limit values: 600 mg/g creatinine, almond + phenylglyoxylic acid [in urine]. Sampling time: end of the shift.

Biological limit values: 300 µmol/mmol creatinine, almond acid [in urine]. Sampling time: end of the shift.

Biological limit values: 400 mg/g creatinine, almond acid [in urine]. Sampling time: end of the shift.

No exposure indices known.

No exposure indices known.

No exposure indices known.

Xylene

### Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) [Ksyleeni]

BEI: 5 mmol/l, methylhippuric acid [in urine]. Sampling time: at the end of the work shift.

Ethylbenzene

### Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020)

BEI: 5.2 mmol/l, mandelic acid [in urine]. Sampling time: after work shift at the end of the working week or exposure period.

Styrene

### Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020)

BEI: 1.2 mmol/l, mandelic acid and phenylglyoxylic acid in urine [in urine]. Sampling time: the morning after the working day.

Styrene

### Biological limit values (BLV) - Labour Code / ANSES (France, 4/2023)

BLV: 600 mg/g Cr, phenyl glyoxylic acid [in urine]. Sampling time: at the end of the shift (preferably at the end of the week).

BLV: 40 µg/l, styrene [in urine]. Sampling time: end of shift (regardless of the day of the week).

BLV: 600 mg/g Cr, mandelic acid [in urine]. Sampling time: at the end of the shift (preferably at the end of the week).

Xylene

### DFG BEI-values list (Germany, 7/2024) [Xylene (all isomers)]

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.

### TRGS 903 - BEI Values (Germany, 10/2024) [Xylol alle]

## SECTION 8: Exposure controls/personal protection

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ethylbenzene               | <p><b>Isomeren]</b><br/>BEI: 2000 mg/l, methylhippuric acid [in urine]. Sampling time: end of exposure or end of shift.</p> <p><b>DFG BEI-values list (Germany, 7/2024)</b> Notes: danger from percutaneous absorption (see p. 211 and p. 228).<br/>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><br/>BEI: 250 mg/g creatinine, mandelic acid plus phenylglyoxylic acid [in urine]. Sampling time: end of exposure or end of shift.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Styrene                    | <p><b>DFG BEI-values list (Germany, 7/2024)</b><br/>BEI: 600 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><br/>BEI: 600 mg/g creatinine, mandelic acid plus phenylglyoxylic acid [in urine]. Sampling time: end of exposure or end of shift.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| No exposure indices known. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Xylene                     | <p><b>5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) [xilol]</b><br/>BEI: 1500 mg/g creatinine, methylhippuric acid [in urine].<br/>Sampling time: at the end of the shift.<br/>BEI: 860 µmol/mmol creatinine, methylhippuric acid [in urine].<br/>Sampling time: at the end of the shift.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Ethylbenzene               | <p><b>5/2020. (II. 6.) ITM Decree (Hungary, 12/2023)</b><br/>BEI: 1500 mg/g creatinine, mandelic acid [in urine]. Sampling time: at the end of the working week; at the end of the shift.<br/>BEI: 1110 µmol/mmol creatinine, mandelic acid [in urine].<br/>Sampling time: at the end of the working week; at the end of the shift.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Styrene                    | <p><b>5/2020. (II. 6.) ITM Decree (Hungary, 12/2023)</b><br/>BEI: 600 mg/g creatinine, mandelic acid [in urine]. Sampling time: at the end of the working week; at the end of the shift.<br/>BEI: 450 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. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Xylene                     | <p><b>NAOSH BGVs (Ireland, 1/2011) [Xylene]</b><br/>BMGV: 1.5 g/g creatinine, methylhippuric acids [in urine].<br/>Sampling time: end of shift - As soon as possible after exposure ceases.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Ethylbenzene               | <p><b>NAOSH BGVs (Ireland, 1/2011)</b><br/>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].<br/>Sampling time: not critical.<br/>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> |
| Styrene                    | <p><b>NAOSH BGVs (Ireland, 1/2011)</b><br/>BMGV: 0.2 mg/l [Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## SECTION 8: Exposure controls/personal protection

No exposure indices known.

Xylene

Styrene

No exposure indices known.

No exposure indices known.

No exposure indices known.

No exposure indices known.

No exposure indices known.

No exposure indices known.

Xylene

Ethylbenzene

Styrene

Xylene

Ethylbenzene

Styrene

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.], styrene [in venous blood]. Sampling time: end of shift - As soon as possible after exposure ceases.

BMGV: 400 mg/g creatinine, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.

### Minister Cabinet Regulations No.325 - BEI (Latvia, 3/2024) [ksiloli (visi izomēri)]

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.

### Minister Cabinet Regulations No.325 - BEI (Latvia, 3/2024)

BEI: 0.55 mg/l, styrene [in blood]. Sampling time: end of the shift.

BEI: 600 mg/g creatinine, mandelic acid together with phenylglyoxylic acid [in urine]. Sampling time: at the end of the exposure or at the end of the shift.

### Portuguese Institute of Quality (Portugal, 11/2014) [Xilenos (graus técnico e comercial)]

BEI: 1.5 g/g creatinine, (o, m, p) -methyl-boronic acids [in urine]. Sampling time: end of shift.

### Portuguese Institute of Quality (Portugal, 11/2014)

BEI: 0.7 g/g creatinine, sum of mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift.

### Portuguese Institute of Quality (Portugal, 11/2014)

BEI: 0.2 mg/l [The biological indicator is a bio marker of exposure to the chemical agent, but the quantitative interpretation of the measurement is ambiguous. These biological indicators should be used as a screening test if a quantitative test is not practicable or as a confirmatory test if the quantitative test is not specific and the origin of the biological indicator is in question], styrene [in venous blood]. Sampling time: end of shift.

BEI: 400 mg/g creatinine, sum of mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift.

### HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2024) [xilen]

OBLV: 3 g/l, methylhippuric acid [in urine]. Sampling time: end of shift.

### HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2024)

OBLV: 1.5 g/g creatinine, mandelic acid [in urine]. Sampling time: end of the week.

### HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2024)

OBLV: 0.02 mg/l, styrene [in blood]. Sampling time: at the beginning of the next shift.

## SECTION 8: Exposure controls/personal protection

Xylene

OBLV: 0.55 mg/l, styrene [in blood]. Sampling time: end of shift.  
OBLV: 100 mg/g creatinine, phenylglyoxylic acid [in urine].  
Sampling time: end of shift.  
OBLV: 300 mg/g creatinine, mandelic acid [in urine]. Sampling  
time: at the beginning of the next shift.  
OBLV: 800 mg/g creatinine, mandelic acid [in urine]. Sampling  
time: end of shift.

### Government regulation SR c. 355/2006 (Slovakia, 6/2024) [xylén (všetky izoméry)]

BLV: 781 µmol/mmol creatinine, as sum of 2,3,4-methylhippuroic  
acids [in urine]. Sampling time: at the end of exposure or work shift.  
BLV: 1334 mg/g creatinine, as sum of 2,3,4-methylhippuroic acids  
[in urine]. Sampling time: at the end of exposure or work shift.  
BLV: 10355 µmol/l, as sum of 2,3,4-methylhippuroic acids [in  
urine]. Sampling time: at the end of exposure or work shift.  
BLV: 14.6 µmol/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-methylhippuroic 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 µmol/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 µmol/mmol creatinine, as 2 or 4-ethylfenol [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-ethylfenol [in urine]. Sampling  
time: at the end of exposure or work shift; long-term exposure:  
after several work shifts.  
BLV: 10590 µmol/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 µmol/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.  
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.  
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.

Styrene

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

BLV: 449 µmol/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: 600 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: 5960 µmol/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: 901 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

|                            |                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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></p> <p>BAT: 2 g/l, methylhippuric acid (all isomers) [in urine]. 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></p> <p>BAT: 250 mg/g creatinine, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of the work shift.</p>                                                                                         |
| Styrene                    | <p><b>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)</b></p> <p>BAT: 600 mg/g creatinine, mandelic acid and phenylglyoxylic acid [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.</p> |
| Xylene                     | <p><b>National institute of occupational safety and health (Spain, 1/2024) [Xilenos]</b></p> <p>VLB: 1 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift.</p>                                                                                                                                                                        |
| Ethylbenzene               | <p><b>National institute of occupational safety and health (Spain, 1/2024)</b></p> <p>VLB: 700 mg/g creatinine, sum of mandelic acid and acid and phenylglyoxylic acid [in urine]. Sampling time: end of workweek.</p>                                                                                                                                          |
| Styrene                    | <p><b>National institute of occupational safety and health (Spain, 1/2024)</b></p> <p>VLB: 0.2 mg/l, styrene [in venous blood]. Sampling time: end of shift.</p> <p>VLB: 400 mg/g creatinine, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift.</p>                                                                               |
| No exposure indices known. |                                                                                                                                                                                                                                                                                                                                                                 |
| Xylene                     | <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>                                                                                                                                                                           |
| 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>                                                                                                                                                                    |
| Styrene                    | <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

## SECTION 8: Exposure controls/personal protection

### Product/ingredient name

-Methoxy-1-methylethyl acetate

### Result

**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

Solvent naphtha (petroleum), light aromatic

**DNEL - General population - Long term - Inhalation**  
0.41 mg/m<sup>3</sup>  
Effects: Systemic

**DNEL - Workers - Long term - Inhalation**  
1.9 mg/m<sup>3</sup>  
Effects: Systemic

**DNEL - General population - Long term - Inhalation**  
178.57 mg/m<sup>3</sup>  
Effects: Local

**DNEL - General population - Short term - Inhalation**  
640 mg/m<sup>3</sup>  
Effects: Local

**DNEL - Workers - Long term - Inhalation**  
837.5 mg/m<sup>3</sup>  
Effects: Local

**DNEL - Workers - Short term - Inhalation**  
1066.67 mg/m<sup>3</sup>  
Effects: Local

**DNEL - General population - Short term - Inhalation**  
1152 mg/m<sup>3</sup>  
Effects: Systemic

**DNEL - Workers - Short term - Inhalation**  
1286.4 mg/m<sup>3</sup>  
Effects: Systemic

Xylene

**DNEL - General population - Long term - Oral**  
5 mg/kg bw/day  
Effects: Systemic

## SECTION 8: Exposure controls/personal protection

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

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

Effects: Local

### **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

n-Butyl acetate

### **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

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

11 mg/kg bw/day

Effects: Systemic

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

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

## SECTION 8: Exposure controls/personal protection

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

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

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

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

0.18 mg/kg bw/day

Effects: Systemic

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

0.31 mg/m<sup>3</sup>

Effects: Systemic

## SECTION 8: Exposure controls/personal protection

Styrene

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

0.9 mg/kg bw/day

Effects: Systemic

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

1.27 mg/m<sup>3</sup>

Effects: Systemic

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

1.8 mg/kg bw/day

Effects: Systemic

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

7.7 µg/kg bw/day

Effects: Systemic

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

1 mg/m<sup>3</sup>

Effects: Local

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

1 mg/m<sup>3</sup>

Effects: Systemic

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

10 mg/m<sup>3</sup>

Effects: Local

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

10 mg/m<sup>3</sup>

Effects: Systemic

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

85 mg/m<sup>3</sup>

Effects: Systemic

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

100 mg/m<sup>3</sup>

Effects: Local

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

100 mg/m<sup>3</sup>

Effects: Local

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

100 mg/m<sup>3</sup>

Effects: Systemic

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

343 mg/kg bw/day

Effects: Systemic

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

406 mg/kg bw/day

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): polyvinyl alcohol (PVA) thickness > 0.3 mm or 4H / Silver Shield® gloves.
- > 8 hours (breakthrough time): Viton® thickness > 0.3 mm gloves
- Wash hands before breaks and immediately after handling the product.
- 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. |
| Melting point/freezing point            | : Not available. |
| Initial boiling point and boiling range | :                |

| Ingredient name                             | °C         | °F         | Method   |
|---------------------------------------------|------------|------------|----------|
| Butyl acetate                               | 126        | 258.8      | OECD 103 |
| Solvent naphtha (petroleum), light aromatic | 135 to 210 | 275 to 410 |          |

|                                 |                                                                                  |
|---------------------------------|----------------------------------------------------------------------------------|
| Flammability                    | : Not available.                                                                 |
| Lower and upper explosion limit | : Lower: 0.8% (xylene)<br>Upper: 7.6% (Solvent naphtha (petroleum), light arom.) |
| Flash point                     | : Closed cup: 30°C (86°F)                                                        |
| Auto-ignition temperature       | :                                                                                |

| Ingredient name                             | °C         | °F         | Method    |
|---------------------------------------------|------------|------------|-----------|
| Solvent naphtha (petroleum), light aromatic | 280 to 470 | 536 to 878 |           |
| 2-Methoxy-1-methylethyl acetate             | 333        | 631.4      | DIN 51794 |

|                           |                                              |
|---------------------------|----------------------------------------------|
| Decomposition temperature | : Not available.                             |
| pH                        | : Not applicable.                            |
| Viscosity                 | : Kinematic (40°C): <20.5 mm <sup>2</sup> /s |
| 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 |
| Butyl acetate   | 11.25096                | 1.5 | DIN EN 13016-2 |                         |     |        |
| Ethylbenzene    | 9.30076                 | 1.2 |                |                         |     |        |

|                          |                       |
|--------------------------|-----------------------|
| Relative density         | : Not available.      |
| Density                  | : 1 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.
- 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

2-Methoxy-1-methylethyl acetate

##### Result

**Rat - Oral - LD50**

8532 mg/kg

**Rabbit - Dermal - LD50**

>5 g/kg

Solvent naphtha (petroleum), light aromatic

**Rat - Oral - LD50**

8400 mg/kg

Toxic effects: Behavioral - Somnolence (general depressed activity) Behavioral - Tremor Lung, Thorax, or Respiration - Other changes

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]

n-Butyl acetate

**Rat - Oral - LD50**

10760 mg/kg

EU

**Rabbit - Dermal - LD50**

14112 mg/kg

**Rat - Inhalation - LC50 Vapour**

0.74 mg/l [4 hours]

Ethylbenzene

**Rat - Oral - LD50**

3500 mg/kg

**Rabbit - Dermal - LD50**

15400 mg/kg

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

29000 mg/l [4 hours]

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl

**Rat - Oral - LD50**

3230 mg/kg

## SECTION 11: Toxicological information

1,2,2,6,6-pentamethyl-4-piperidyl sebacate

### Rat - Dermal - LD50

>3170 mg/kg

Styrene

### Rat - Oral - LD50

2650 mg/kg

Toxic effects: Behavioral - Somnolence (general depressed activity) Liver - Other changes

### Rat - Inhalation - LC50 Vapour

11800 mg/m<sup>3</sup> [4 hours]

### Rat - Inhalation - LC50 Gas.

2770 ppm [4 hours]

**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) |
|-----------------------------------------------------------------------------|--------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| TEKNODUR 0250                                                               | N/A          | 8490.2         | N/A                      | 69.6                        | N/A                                 |
| 2-Methoxy-1-methylethyl acetate                                             | 8532         | N/A            | N/A                      | N/A                         | N/A                                 |
| Solvent naphtha (petroleum), light aromatic                                 | 8400         | N/A            | N/A                      | N/A                         | N/A                                 |
| Xylene                                                                      | 4300         | 1100           | N/A                      | 11                          | N/A                                 |
| n-Butyl acetate                                                             | 10760        | 14112          | N/A                      | N/A                         | N/A                                 |
| Ethylbenzene                                                                | 3500         | 15400          | N/A                      | 11                          | 29000                               |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl | 3230         | N/A            | N/A                      | N/A                         | N/A                                 |
| 1,2,2,6,6-pentamethyl-4-piperidyl sebacate                                  |              |                |                          |                             |                                     |
| Styrene                                                                     | 2650         | N/A            | 2770                     | 11.8                        | N/A                                 |

### Skin corrosion/irritation

#### Product/ingredient name

Xylene

#### Result

##### 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 %

n-Butyl acetate

##### Rabbit - Skin - Moderate irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 500 mg

Ethylbenzene

##### Rabbit - Skin - Mild irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 15 mg

Styrene

##### Rabbit - Skin - Mild irritant

Amount/concentration applied: 500 mg

##### Rabbit - Skin - Moderate irritant

Amount/concentration applied: 100 %

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

## SECTION 11: Toxicological information

### Serious eye damage/eye irritation

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

 Solvent naphtha (petroleum), light aromatic

Xylene

n-Butyl acetate

Ethylbenzene

Styrene

#### **Result**

##### **Rabbit - Eyes - Mild irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 100 uL

##### **Rabbit - Eyes - Mild irritant**

Amount/concentration applied: 87 mg

##### **Rabbit - Eyes - Severe irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 5 mg

##### **Rabbit - Eyes - Moderate irritant**

Amount/concentration applied: 100 mg

##### **Rabbit - Eyes - Severe irritant**

Amount/concentration applied: 500 mg

##### **Human - Eyes - Mild irritant**

Amount/concentration applied: 50 ppm

##### **Rabbit - Eyes - Moderate irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 100 mg

##### **Rabbit - Eyes - Severe irritant**

Amount/concentration applied: 100 mg

**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.

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

### Carcinogenicity

Not available.

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

### Reproductive toxicity

## SECTION 11: Toxicological information

Not available.

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

### Specific target organ toxicity (single exposure)

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

☒ Methoxy-1-methylethyl acetate  
Solvent naphtha (petroleum), light aromatic

Xylene  
n-Butyl acetate  
Styrene

#### **Result**

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

### Specific target organ toxicity (repeated exposure)

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

☒ Xylene  
Ethylbenzene  
Styrene

#### **Result**

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

### Aspiration hazard

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

Solvent naphtha (petroleum), light aromatic  
Xylene  
Ethylbenzene  
Styrene

#### **Result**

ASPIRATION HAZARD - Category 1  
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. May cause respiratory irritation.
- Skin contact** : Causes skin irritation. May cause an allergic skin reaction.
- Ingestion** : Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

### 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:  
respiratory tract irritation  
coughing  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness
- Ingestion** : Adverse symptoms may include the following:  
nausea or vomiting

### 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.

## SECTION 11: Toxicological information

### 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** : No known significant effects or critical hazards.

## 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

Solvent naphtha (petroleum), light aromatic

#### Result

##### Acute - LC50

Fish  
9.2 mg/l [96 hours]

##### Acute - EC50

Daphnia  
3.2 mg/l [48 hours]

n-Butyl acetate

##### 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

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

##### Acute - LC50

OECD [Fish, Acute Toxicity Test]  
Fish - *Brachydanio rerio*  
0.9 mg/l [96 hours]

##### EC50

OECD [Alga, Growth Inhibition Test]  
Aquatic plants - *Desmodesmodus subspicatus*  
1.68 mg/l [72 hours]

##### Chronic - NOEC

OECD [Daphnia Magna Reproduction Test]  
Daphnia - Daphnia  
1 mg/l [21 days]

## SECTION 12: Ecological information

Styrene

### Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas*

Age: 30 days; Size: 19 mm; Weight: 0.101 g

4020 µg/l [96 hours]

Effect: Mortality

### Acute - EC50 - Fresh water

Daphnia - Water flea - *Daphnia magna*

Age: ≤24 hours

4700 µg/l [48 hours]

Effect: Mortality

### Acute - EC50 - Fresh water

Algae - Green algae - *Pseudokirchneriella subcapitata*

720 µg/l [96 hours]

Effect: Population

### Chronic - NOEC - Fresh water

Algae - Green algae - *Pseudokirchneriella subcapitata*

63 µg/l [96 hours]

Effect: Population

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

## 12.2 Persistence and degradability

Not available.

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

## 12.3 Bioaccumulative potential

| Product/ingredient name                     | LogP <sub>ow</sub> | BCF         | Potential |
|---------------------------------------------|--------------------|-------------|-----------|
| 2-Methoxy-1-methylethyl acetate             | 1.2                | -           | Low       |
| Solvent naphtha (petroleum), light aromatic | -                  | 10 to 2500  | High      |
| Xylene                                      | 3.12               | 8.1 to 25.9 | Low       |
| n-Butyl acetate                             | 2.3                | -           | Low       |
| Ethylbenzene                                | 3.6                | -           | Low       |
| Styrene                                     | 2.96               | 13.49       | Low       |

## 12.4 Mobility in soil

### Soil/water partition coefficient

| Product/ingredient name         | logK <sub>oc</sub> | K <sub>oc</sub> |
|---------------------------------|--------------------|-----------------|
| 2-Methoxy-1-methylethyl acetate | 0.36               | 2.31363         |
| n-Butyl acetate                 | 1.5                | 33.2139         |
| Ethylbenzene                    | 2.2                | 170.406         |
| Styrene                         | 3                  | 896.322         |

### Results of PMT and vPvM assessment

| Product/ingredient name                                                                     | PMT | P  | M  | T  | vPvM | vP | vM |
|---------------------------------------------------------------------------------------------|-----|----|----|----|------|----|----|
| 2-Methoxy-1-methylethyl acetate                                                             | No  | No | No | No | No   | No | No |
| Solvent naphtha (petroleum), light aromatic                                                 | No  | No | No | No | No   | No | No |
| Xylene                                                                                      | No  | No | No | No | No   | No | No |
| n-Butyl acetate                                                                             | 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- | No  | No | No | No | No   | No | No |

Date of issue/Date of revision

: 23/01/2026

Date of previous issue

: 31/10/2022

Version : 3

40/49

TEKNODUR 0250

Label No : 40511

## SECTION 12: Ecological information

|                                                                                                                                                                                                       |    |    |    |    |    |    |    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|----|----|----|----|
| 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) |    |    |    |    |    |    |    |
| Reaction mass of Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate                                                                               | No | No | No | No | No | No | No |
| Styrene                                                                                                                                                                                               | 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]

| Product/ingredient name                                                                                                                                                                                                                                                                          | PBT | P   | B   | T   | vPvB | vP  | vB  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|------|-----|-----|
| 2-Methoxy-1-methylethyl acetate                                                                                                                                                                                                                                                                  | No  | N/A | N/A | No  | N/A  | N/A | N/A |
| Solvent naphtha (petroleum), light aromatic                                                                                                                                                                                                                                                      | No  | N/A | No  | No  | No   | N/A | No  |
| Xylene                                                                                                                                                                                                                                                                                           | No  | N/A | No  | Yes | No   | N/A | No  |
| n-Butyl acetate                                                                                                                                                                                                                                                                                  | 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 |
| Reaction mass of Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate                                                                                                                                                                          | N/A | N/A | N/A | Yes | N/A  | N/A | N/A |
| Styrene                                                                                                                                                                                                                                                                                          | No  | N/A | No  | Yes | No   | N/A | No  |

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

| Product/ingredient name                                                    | PBT | P  | B  | T  | vPvB | vP | vB |
|----------------------------------------------------------------------------|-----|----|----|----|------|----|----|
| 2-Methoxy-1-methylethyl acetate                                            | No  | No | No | No | No   | No | No |
| Solvent naphtha (petroleum), light aromatic                                | No  | No | No | No | No   | No | No |
| Xylene                                                                     | No  | No | No | No | No   | No | No |
| n-Butyl acetate                                                            | 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) | No  | No | No | No | No   | No | No |

## SECTION 12: Ecological information

|                                                                                                                                                                                                                      |    |    |    |    |    |    |    |    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|----|----|----|----|----|
| 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) |    |    |    |    |    |    |    |    |
| Reaction mass of Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate                                                                                              | No | No | No | No | No | No | No | No |
| Styrene                                                                                                                                                                                                              | No | 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.

### 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** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

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

**European waste catalogue (EWC)** : 080111\*, 200127\*

#### 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<br> | 3<br> | 3<br> | 3<br> |
| 14.4 Packing group              | III                                                                                    | III                                                                                    | III                                                                                     | III                                                                                      |
| 14.5 Environmental hazards      | No.                                                                                    | No.                                                                                    | No.                                                                                     | No.                                                                                      |

### Additional information

**ADR/RID** : **Viscous liquid exception** This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1.  
**Tunnel code** (D/E)

**ADN** : **Viscous liquid exception** This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1.

**IMDG** : **Viscous liquid exception** This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.

**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] |
|---------------------------------------------------------------------------------------------------|-----|---------------------|
|  TEKNODUR 0250 | ≥90 | 3                   |

**Labelling** :

### Other EU regulations

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

## SECTION 15: Regulatory information

**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                                                                             |
|--------------------------------------------------------------------------------------|
|  5c |

**National regulations**

**Austria**

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

**Belgium**

**Book VI carcinogenic agents annex VI.2-1 - VI.2-3**

| Ingredient name                                                                             | Status |
|---------------------------------------------------------------------------------------------|--------|
|  Styrène | Listed |

**Czech Republic**

**Storage code** : II

**Denmark**

**Fire class** : -1

**Executive Order No. 1795/2015**

| Ingredient name                                                                                  | Annex I Section A | Annex I Section B |
|--------------------------------------------------------------------------------------------------|-------------------|-------------------|
|  Ethylbenzene | Listed            | -                 |
| Styrene                                                                                          | Listed            | -                 |

**MAL-code** : 4-5

**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, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.

## SECTION 15: Regulatory information

MAL-code: 4-5

**Application:** When using scraper or knife, brush, roller etc. for pre- and post-treatments in a spray booth where the operator is outside the spray zone and when working in similar new\* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone. When spraying in new\* booths and cabins with non-atomizing guns.

- Protective clothing 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. 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, protective clothing and eye protection must be worn.

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

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

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

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

\*See Regulations.

|                                       |   |                                                                                                                                                              |
|---------------------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Restrictions on use</b>            | : | 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. |
| <b>List of undesirable substances</b> | : | Not listed                                                                                                                                                   |
| <b>Carcinogenic waste</b>             | : | Waste containers must be labeled: Contains a substance or substances regulated by Danish working environment legislation on cancer risks.                    |

### Finland

### France

|                                                          |   |                                                                                                                   |                |
|----------------------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------|----------------|
| <b>Social Security Code, Articles L 461-1 to L 461-7</b> | : |  Methoxy-1-methylethyl acetate | RG 84          |
|                                                          |   | Solvent naphtha (petroleum), light aromatic                                                                       | RG 84          |
|                                                          |   | Xylene                                                                                                            | RG 4bis, RG 84 |
|                                                          |   | n-Butyl acetate                                                                                                   | RG 84          |
|                                                          |   | Ethylbenzene                                                                                                      | RG 84          |
|                                                          |   | Styrene                                                                                                           | RG 84          |

## SECTION 15: Regulatory information

**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** : 2

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

| Number [Class] | Description                   | %     |
|----------------|-------------------------------|-------|
| 5.2.1          | Total dust                    | 46.4  |
| 5.2.5          | Organic substances            | 53.5  |
| 5.2.5 [I]      | Organic substances            | 38.9  |
| 5.2.7.1.3      | Reproductive toxic substances | 0.047 |

### 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 |
|------------------------------------------|------------|---------|-----------------------------------|-------------------------------------|---------------------------|
| Solvent naphtha (petroleum), light arom. | Listed     | Listed  | -                                 | -                                   | -                         |
| xyleen                                   | -          | -       | -                                 | Development 2                       | -                         |
| styreen                                  | -          | -       | -                                 | Development 2                       | -                         |

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

### Norway

### Sweden

**Flammable liquid class (SRVFS 2005:10)** : 2a

### Switzerland

**VOC content** : VOC (w/w): 51.4%

### 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.

## SECTION 15: Regulatory information

### 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. 3, H226<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>STOT SE 3, H335<br>STOT SE 3, H336<br>STOT RE 2, H373<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3, H412 | On basis of test data<br>Calculation method<br>Calculation method<br>Calculation method<br>Calculation method<br>Calculation method<br>Calculation method<br>Calculation method<br>Calculation method<br>Calculation method |

### Full text of abbreviated H statements

|        |                                                                    |
|--------|--------------------------------------------------------------------|
| H225   | Highly flammable liquid and vapour.                                |
| H226   | Flammable liquid and vapour.                                       |
| H304   | May be fatal if swallowed and enters airways.                      |
| H312   | Harmful in contact with skin.                                      |
| H315   | Causes skin irritation.                                            |
| H317   | May cause an allergic skin reaction.                               |
| H319   | Causes serious eye irritation.                                     |
| H332   | Harmful if inhaled.                                                |
| H335   | May cause respiratory irritation.                                  |
| H336   | May cause drowsiness or dizziness.                                 |
| H361   | Suspected of damaging fertility or the unborn child.               |
| H361f  | Suspected of damaging fertility.                                   |
| H372   | Causes damage to organs through prolonged or repeated exposure.    |
| H373   | May cause damage to organs through prolonged or repeated exposure. |
| H400   | Very toxic to aquatic life.                                        |
| H410   | Very toxic to aquatic life with long lasting effects.              |
| H411   | Toxic to aquatic life with long lasting effects.                   |
| H412   | Harmful to aquatic life with long lasting effects.                 |
| EUH066 | Repeated exposure may cause skin dryness or cracking.              |

### Full text of classifications [CLP/GHS]

|                   |                                                 |
|-------------------|-------------------------------------------------|
| Acute Tox. 4      | ACUTE TOXICITY - Category 4                     |
| Aquatic Acute 1   | SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1  |
| Aquatic Chronic 1 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 |
| 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 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              |
| Skin Irrit. 2     | SKIN CORROSION/IRRITATION - Category 2          |
| Skin Sens. 1      | SKIN SENSITISATION - Category 1                 |

Date of issue/Date of revision

: 23/01/2026

Date of previous issue

: 31/10/2022

Version : 3

47/49

TEKNODUR 0250

Label No : 40511

## SECTION 16: Other information

|               |                                                                 |
|---------------|-----------------------------------------------------------------|
| 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   |

**Date of issue/ Date of revision** : 23/01/2026

**Date of previous issue** : 31/10/2022

**Version** : 3

TEKNODUR 0250

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.

