

# SAFETY DATA SHEET



OWOFINE 4364-20 - All variants

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

### 1.1 Product identifier

Product name : OWOFINE 4364-20 - All variants

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

Product use : Paint.

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

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

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

### 1.4 Emergency telephone number

#### National advisory body/Poison Centre

Telephone number : In an emergency, call 112

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Product definition : Mixture

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

Flam. Liq. 3, H226  
Skin Sens. 1, H317  
STOT SE 3, H336  
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 : Warning

Hazard statements : H226 - Flammable liquid and vapour.  
H317 - May cause an allergic skin reaction.  
H336 - May cause drowsiness or dizziness.  
H412 - Harmful to aquatic life with long lasting effects.

#### Precautionary statements

Prevention : P280 - Wear protective gloves.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P273 - Avoid release to the environment.

Response : P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.

Storage : P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

Disposal : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Date of issue/Date of revision : 27/01/2026 Date of previous issue : 13/02/2024

Version : 1.01 1/46

OWOFINE 4364-20 - All variants

Label No : 40005

## SECTION 2: Hazards identification

**Hazardous ingredients** : Contains: n-Butyl acetate; 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) and Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

**Supplemental label elements** :

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

### 2.3 Other hazards

**Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**Other hazards which do not result in classification** : None known.

## SECTION 3: Composition/information on ingredients

**3.2 Mixtures** : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
n-Butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥25 - ≤50	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1] [2]
2-Methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7	≤10	Flam. Liq. 3, H226	-	[2]
Xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≤6.7	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 (oral, inhalation) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
Ethyl acetate	REACH #: 01-2119475103-46 EC: 205-500-4 CAS: 141-78-6 Index: 607-022-00-5	≤3.2	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	-	[1] [2]
Ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4	≤3	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) (oral,	ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]

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## SECTION 3: Composition/information on ingredients

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)	Index: 601-023-00-4  EC: 400-830-7 Index: 607-176-00-3	<1	inhalation) Asp. Tox. 1, H304 Aquatic Chronic 3, H412  Skin Sens. 1, H317 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 #: 01-2119491304-40 EC: 915-687-0 CAS: 1065336-91-5	≤1	Skin Sens. 1A, H317 Repr. 2, H361f Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
propylidynetrimethanol	REACH #: 01-2119486799-10 EC: 201-074-9 CAS: 77-99-6	≤1	Repr. 2, H361fd  <b>See Section 16 for the full text of the H statements declared above.</b>	-	[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 if irritation occurs.

#### Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

#### Skin contact

: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

## SECTION 4: First aid measures

- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** :  No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

#### Over-exposure signs/symptoms

- Eye contact** :  No specific data.
- Inhalation** : Adverse symptoms may include the following:  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness
- Skin contact** :  Adverse symptoms may include the following:  
irritation  
redness
- Ingestion** : No specific data.

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

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.

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

- Hazards from the substance or mixture** :  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  
nitrogen oxides

### 5.3 Advice for firefighters

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

## SECTION 5: Firefighting measures

- 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.

### 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 ingest. Avoid breathing vapour or mist. 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.

## SECTION 7: Handling and storage

### Advice on general occupational hygiene

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

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

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

### Seveso Directive - Reporting thresholds

#### Danger criteria

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

### 7.3 Specific end use(s)

**Recommendations** : Not available.

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

## SECTION 8: Exposure controls/personal protection

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

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
n-Butyl acetate	<b>Regulation on Limit Values - MAC (Austria, 12/2024) [Butylacetat alle Isomeren außer tert-Butylacet]</b> CEIL: 480 mg/m <sup>3</sup> . CEIL: 100 ppm. TWA 8 hours: 241 mg/m <sup>3</sup> . TWA 8 hours: 50 ppm.
2-Methoxy-1-methylethyl acetate	<b>Regulation on Limit Values - MAC (Austria, 12/2024) Absorbed through skin.</b> TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m <sup>3</sup> . CEIL 5 minutes: 100 ppm 8 times per shift. CEIL 5 minutes: 550 mg/m <sup>3</sup> 8 times per shift.
Xylene	<b>Regulation on Limit Values - MAC (Austria, 12/2024) [Xylol (alle Isomeren, rein)]</b> PEAK 15 minutes: 442 mg/m <sup>3</sup> 4 times per shift. TWA 8 hours: 50 ppm. PEAK 15 minutes: 100 ppm 4 times per shift. TWA 8 hours: 221 mg/m <sup>3</sup> .
Ethyl acetate	<b>Regulation on Limit Values - MAC (Austria, 12/2024)</b> TWA 8 hours: 200 ppm. TWA 8 hours: 734 mg/m <sup>3</sup> . PEAK 15 minutes: 1468 mg/m <sup>3</sup> 4 times per shift. PEAK 15 minutes: 400 ppm 4 times per shift.
Ethylbenzene	<b>Regulation on Limit Values - MAC (Austria, 12/2024) Absorbed through skin.</b> TWA 8 hours: 100 ppm.

## SECTION 8: Exposure controls/personal protection

<p>☑ Butyl acetate</p>	<p>TWA 8 hours: 440 mg/m<sup>3</sup>. CEIL 5 minutes: 200 ppm 8 times per shift. CEIL 5 minutes: 880 mg/m<sup>3</sup> 8 times per shift.</p> <p><b>Limit values (Belgium, 12/2023) [butylacetaat]</b> STEL 15 minutes: 712 mg/m<sup>3</sup>. STEL 15 minutes: 150 ppm. TWA 8 hours: 238 mg/m<sup>3</sup>. TWA 8 hours: 50 ppm.</p>
<p>2-Methoxy-1-methylethyl acetate</p>	<p><b>Limit values (Belgium, 12/2023) Absorbed through skin.</b> TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m<sup>3</sup>. STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m<sup>3</sup>.</p>
<p>Xylene</p>	<p><b>Limit values (Belgium, 12/2023) [Xyleen] Absorbed through skin.</b> TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m<sup>3</sup>. STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m<sup>3</sup>.</p>
<p>Ethyl acetate</p>	<p><b>Limit values (Belgium, 12/2023)</b> TWA 8 hours: 200 ppm. TWA 8 hours: 734 mg/m<sup>3</sup>. STEL 15 minutes: 1468 mg/m<sup>3</sup>. STEL 15 minutes: 400 ppm.</p>
<p>Ethylbenzene</p>	<p><b>Limit values (Belgium, 12/2023) Absorbed through skin.</b> TWA 8 hours: 20 ppm. TWA 8 hours: 87 mg/m<sup>3</sup>. STEL 15 minutes: 125 ppm. STEL 15 minutes: 551 mg/m<sup>3</sup>.</p>
<p>☑ Butyl acetate</p>	<p><b>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024)</b> Limit value 8 hours: 241 mg/m<sup>3</sup>. Limit value 15 minutes: 723 mg/m<sup>3</sup>. Limit value 15 minutes: 150 ppm. Limit value 8 hours: 50 ppm.</p>
<p>2-Methoxy-1-methylethyl acetate</p>	<p><b>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Absorbed through skin.</b> Limit value 8 hours: 275 mg/m<sup>3</sup>. Limit value 15 minutes: 550 mg/m<sup>3</sup>. Limit value 15 minutes: 100 ppm. Limit value 8 hours: 50 ppm.</p>
<p>Xylene</p>	<p><b>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) [Xylene]</b> Absorbed through skin. Limit value 8 hours: 221 mg/m<sup>3</sup>. Limit value 15 minutes: 442 mg/m<sup>3</sup>. Limit value 15 minutes: 100 ppm. Limit value 8 hours: 50 ppm.</p>
<p>Ethyl acetate</p>	<p><b>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024)</b> Limit value 8 hours: 734 mg/m<sup>3</sup>. Limit value 15 minutes: 400 ppm. Limit value 15 minutes: 1468 mg/m<sup>3</sup>. Limit value 8 hours: 200 ppm.</p>
<p>Ethylbenzene</p>	<p><b>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Absorbed through skin.</b> Limit value 8 hours: 435 mg/m<sup>3</sup>. Limit value 15 minutes: 545 mg/m<sup>3</sup>.</p>
<p>propylidynetrimethanol</p>	<p><b>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024)</b> Limit value 8 hours: 50 mg/m<sup>3</sup>.</p>

## SECTION 8: Exposure controls/personal protection

n-Butyl acetate	<p><b>Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023)</b></p> <p>STELV 15 minutes: 723 mg/m<sup>3</sup>.            STELV 15 minutes: 150 ppm.            ELV 8 hours: 241 mg/m<sup>3</sup>.            ELV 8 hours: 50 ppm.</p>
2-Methoxy-1-methylethyl acetate	<p><b>Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023)</b> Absorbed through skin.</p> <p>STELV 15 minutes: 550 mg/m<sup>3</sup>.            STELV 15 minutes: 100 ppm.            ELV 8 hours: 275 mg/m<sup>3</sup>.            ELV 8 hours: 50 ppm.</p>
Xylene	<p><b>Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) [ksilen]</b> Absorbed through skin.</p> <p>STELV 15 minutes: 442 mg/m<sup>3</sup>.            STELV 15 minutes: 100 ppm.            ELV 8 hours: 221 mg/m<sup>3</sup>.            ELV 8 hours: 50 ppm.</p>
Ethyl acetate	<p><b>Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023)</b></p> <p>STELV 15 minutes: 400 ppm.            ELV 8 hours: 200 ppm.            STELV 15 minutes: 1468 mg/m<sup>3</sup>.            ELV 8 hours: 734 mg/m<sup>3</sup>.</p>
Ethylbenzene	<p><b>Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023)</b> Absorbed through skin.</p> <p>STELV 15 minutes: 884 mg/m<sup>3</sup>.            STELV 15 minutes: 200 ppm.            ELV 8 hours: 442 mg/m<sup>3</sup>.            ELV 8 hours: 100 ppm.</p>
n-Butyl acetate	<p><b>Department of labour inspection (Cyprus, 7/2021)</b></p> <p>STEL 15 minutes: 150 ppm.            STEL 15 minutes: 723 mg/m<sup>3</sup>.            TWA 8 hours: 50 ppm.            TWA 8 hours: 241 mg/m<sup>3</sup>.</p>
2-Methoxy-1-methylethyl acetate	<p><b>Department of labour inspection (Cyprus, 7/2021)</b> Absorbed through skin.</p> <p>STEL 15 minutes: 100 ppm.            STEL 15 minutes: 550 mg/m<sup>3</sup>.            TWA 8 hours: 50 ppm.            TWA 8 hours: 275 mg/m<sup>3</sup>.</p>
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.            STEL 15 minutes: 442 mg/m<sup>3</sup>.            TWA 8 hours: 50 ppm.            TWA 8 hours: 221 mg/m<sup>3</sup>.</p>
Ethyl acetate	<p><b>Department of labour inspection (Cyprus, 7/2021)</b></p> <p>STEL 15 minutes: 400 ppm.            STEL 15 minutes: 1468 mg/m<sup>3</sup>.            TWA 8 hours: 200 ppm.            TWA 8 hours: 734 mg/m<sup>3</sup>.</p>
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>.            TWA 8 hours: 100 ppm.            TWA 8 hours: 442 mg/m<sup>3</sup>.            STEL 15 minutes: 200 ppm.</p>

## SECTION 8: Exposure controls/personal protection

n-Butyl acetate

**Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023)**

TWA 8 hours: 241 mg/m<sup>3</sup>.  
 STEL 15 minutes: 723 mg/m<sup>3</sup>.  
 STEL 15 minutes: 150 ppm.  
 TWA 8 hours: 50 ppm.

2-Methoxy-1-methylethyl acetate

**Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023)** Absorbed through skin.

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 of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) [xylen]** Absorbed through skin.

TWA 8 hours: 200 mg/m<sup>3</sup>.  
 TWA 8 hours: 45.33 ppm.  
 STEL 15 minutes: 400 mg/m<sup>3</sup>.  
 STEL 15 minutes: 90.66 ppm.

Ethyl acetate

**Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023)**

TWA 8 hours: 700 mg/m<sup>3</sup>.  
 TWA 8 hours: 191.1 ppm.  
 STEL 15 minutes: 900 mg/m<sup>3</sup>.  
 STEL 15 minutes: 245.7 ppm.

Ethylbenzene

**Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023)** Absorbed through skin.

TWA 8 hours: 200 mg/m<sup>3</sup>.  
 TWA 8 hours: 45.33 ppm.  
 STEL 15 minutes: 500 mg/m<sup>3</sup>.  
 STEL 15 minutes: 113.32 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.

2-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.

Ethyl acetate

**Working Environment Authority (Denmark, 12/2024)**

TWA 8 hours: 150 ppm.  
 TWA 8 hours: 540 mg/m<sup>3</sup>.  
 STEL 15 minutes: 1468 mg/m<sup>3</sup>.  
 STEL 15 minutes: 400 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.

## SECTION 8: Exposure controls/personal protection

n-Butyl acetate	<p><b>Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024)</b>            STEL 15 minutes: 150 ppm.            STEL 15 minutes: 723 mg/m<sup>3</sup>.            TWA 8 hours: 50 ppm.            TWA 8 hours: 241 mg/m<sup>3</sup>.</p>
2-Methoxy-1-methylethyl acetate	<p><b>Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024)</b> Absorbed through skin , Sensitiser.            STEL 15 minutes: 100 ppm.            STEL 15 minutes: 550 mg/m<sup>3</sup>.            TWA 8 hours: 275 mg/m<sup>3</sup>.            TWA 8 hours: 50 ppm.</p>
Xylene	<p><b>Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) [ksüleen]</b> Absorbed through skin.            TWA 8 hours: 50 ppm.            STEL 15 minutes: 100 ppm.            STEL 15 minutes: 450 mg/m<sup>3</sup>.            TWA 8 hours: 200 mg/m<sup>3</sup>.</p>
Ethyl acetate	<p><b>Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024)</b>            TWA 8 hours: 500 mg/m<sup>3</sup>.            TWA 8 hours: 150 ppm.            STEL 15 minutes: 1100 mg/m<sup>3</sup>.            STEL 15 minutes: 300 ppm.</p>
Ethylbenzene	<p><b>Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024)</b> Absorbed through skin , Sensitiser.            TWA 8 hours: 442 mg/m<sup>3</sup>.            TWA 8 hours: 100 ppm.            STEL 15 minutes: 884 mg/m<sup>3</sup>.            STEL 15 minutes: 200 ppm.</p>
n-Butyl acetate	<p><b>EU OEL (Europe, 1/2022)</b>            STEL 15 minutes: 150 ppm.            STEL 15 minutes: 723 mg/m<sup>3</sup>.            TWA 8 hours: 241 mg/m<sup>3</sup>.            TWA 8 hours: 50 ppm.</p>
2-Methoxy-1-methylethyl acetate	<p><b>EU OEL (Europe, 1/2022)</b> Absorbed through skin.            TWA 8 hours: 50 ppm.            TWA 8 hours: 275 mg/m<sup>3</sup>.            STEL 15 minutes: 100 ppm.            STEL 15 minutes: 550 mg/m<sup>3</sup>.</p>
Xylene	<p><b>EU OEL (Europe, 1/2022) [xylene, mixed isomers]</b> Absorbed through skin.            TWA 8 hours: 50 ppm.            TWA 8 hours: 221 mg/m<sup>3</sup>.            STEL 15 minutes: 100 ppm.            STEL 15 minutes: 442 mg/m<sup>3</sup>.</p>
Ethyl acetate	<p><b>EU OEL (Europe, 1/2022)</b>            STEL 15 minutes: 400 ppm.            STEL 15 minutes: 1468 mg/m<sup>3</sup>.            TWA 8 hours: 200 ppm.            TWA 8 hours: 734 mg/m<sup>3</sup>.</p>
Ethylbenzene	<p><b>EU OEL (Europe, 1/2022)</b> Absorbed through skin.            TWA 8 hours: 100 ppm.            TWA 8 hours: 442 mg/m<sup>3</sup>.            STEL 15 minutes: 200 ppm.            STEL 15 minutes: 884 mg/m<sup>3</sup>.</p>

## SECTION 8: Exposure controls/personal protection

n-Butyl acetate	<p><b>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021)</b>            TWA 8 hours: 150 ppm.            TWA 8 hours: 720 mg/m<sup>3</sup>.            STEL 15 minutes: 200 ppm.            STEL 15 minutes: 960 mg/m<sup>3</sup>.</p>
2-Methoxy-1-methylethyl acetate	<p><b>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021)</b> Absorbed through skin.            TWA 8 hours: 50 ppm.            TWA 8 hours: 270 mg/m<sup>3</sup>.            STEL 15 minutes: 100 ppm.            STEL 15 minutes: 550 mg/m<sup>3</sup>.</p>
Xylene	<p><b>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) [Ksyleeni]</b> Absorbed through skin.            STEL 15 minutes: 440 mg/m<sup>3</sup>.            TWA 8 hours: 220 mg/m<sup>3</sup>.            TWA 8 hours: 50 ppm.            STEL 15 minutes: 100 ppm.</p>
Ethyl acetate	<p><b>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021)</b>            TWA 8 hours: 200 ppm.            TWA 8 hours: 730 mg/m<sup>3</sup>.            STEL 15 minutes: 400 ppm.            STEL 15 minutes: 1470 mg/m<sup>3</sup>.</p>
Ethylbenzene	<p><b>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021)</b> Absorbed through skin.            TWA 8 hours: 50 ppm.            TWA 8 hours: 220 mg/m<sup>3</sup>.            STEL 15 minutes: 200 ppm.            STEL 15 minutes: 880 mg/m<sup>3</sup>.</p>
n-Butyl acetate	<p><b>Ministry of Labor (France, 6/2024)</b>            TWA 8 hours: 50 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)            TWA 8 hours: 241 mg/m<sup>3</sup>. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)            STEL 15 minutes: 150 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)            STEL 15 minutes: 723 mg/m<sup>3</sup>. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)</p>
2-Methoxy-1-methylethyl acetate	<p><b>Ministry of Labor (France, 6/2024)</b> Absorbed through skin.            STEL 15 minutes: 550 mg/m<sup>3</sup>. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)            STEL 15 minutes: 100 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)            TWA 8 hours: 275 mg/m<sup>3</sup>. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)            TWA 8 hours: 50 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)</p>
Xylene	<p><b>Ministry of Labor (France, 6/2024) [xylènes, isomères mixtes, purs]</b> Absorbed through skin.            STEL 15 minutes: 442 mg/m<sup>3</sup>. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)            STEL 15 minutes: 100 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)            TWA 8 hours: 221 mg/m<sup>3</sup>. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)            TWA 8 hours: 50 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)</p>
Ethyl acetate	<p><b>Ministry of Labor (France, 6/2024)</b>            TWA 8 hours: 200 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)            TWA 8 hours: 734 mg/m<sup>3</sup>. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)</p>

## SECTION 8: Exposure controls/personal protection

Ethylbenzene	<p>STEL 15 minutes: 1468 mg/m<sup>3</sup>. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)</p> <p>STEL 15 minutes: 400 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)</p> <p><b>Ministry of Labor (France, 6/2024)</b> Absorbed through skin.</p> <p>TWA 8 hours: 20 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)</p> <p>TWA 8 hours: 88.4 mg/m<sup>3</sup>. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)</p> <p>STEL 15 minutes: 442 mg/m<sup>3</sup>. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)</p> <p>STEL 15 minutes: 100 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)</p>
n-Butyl acetate	<p><b>TRGS 900 OEL (Germany, 6/2024)</b></p> <p>TWA 8 hours: 300 mg/m<sup>3</sup>.</p> <p>TWA 8 hours: 62 ppm.</p> <p>PEAK 15 minutes: 600 mg/m<sup>3</sup>.</p> <p>PEAK 15 minutes: 124 ppm.</p> <p><b>DFG MAC-values list (Germany, 7/2024)</b> Develop C.</p> <p>TWA 8 hours: 100 ppm.</p> <p>PEAK 15 minutes: 200 ppm 4 times per shift [Interval: 1 hour].</p> <p>TWA 8 hours: 480 mg/m<sup>3</sup>.</p> <p>PEAK 15 minutes: 960 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour].</p>
2-Methoxy-1-methylethyl acetate	<p><b>TRGS 900 OEL (Germany, 6/2024)</b></p> <p>TWA 8 hours: 270 mg/m<sup>3</sup>.</p> <p>PEAK 15 minutes: 270 mg/m<sup>3</sup>.</p> <p>TWA 8 hours: 50 ppm.</p> <p>PEAK 15 minutes: 50 ppm.</p> <p><b>DFG MAC-values list (Germany, 7/2024)</b> Develop C.</p> <p>TWA 8 hours: 50 ppm.</p> <p>PEAK 15 minutes: 50 ppm 4 times per shift [Interval: 1 hour].</p> <p>TWA 8 hours: 270 mg/m<sup>3</sup>.</p> <p>PEAK 15 minutes: 270 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour].</p>
Xylene	<p><b>TRGS 900 OEL (Germany, 6/2024) [XyloI]</b> Absorbed through skin.</p> <p>TWA 8 hours: 220 mg/m<sup>3</sup>.</p> <p>PEAK 15 minutes: 440 mg/m<sup>3</sup>.</p> <p>TWA 8 hours: 50 ppm.</p> <p>PEAK 15 minutes: 100 ppm.</p> <p><b>DFG MAC-values list (Germany, 7/2024) [Xylene]</b> Develop D.</p> <p>Absorbed through skin.</p> <p>TWA 8 hours: 50 ppm.</p> <p>PEAK 15 minutes: 100 ppm 4 times per shift [Interval: 1 hour].</p> <p>TWA 8 hours: 220 mg/m<sup>3</sup>.</p> <p>PEAK 15 minutes: 440 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour].</p>
Ethyl acetate	<p><b>TRGS 900 OEL (Germany, 6/2024)</b></p> <p>TWA 8 hours: 730 mg/m<sup>3</sup>.</p> <p>PEAK 15 minutes: 1460 mg/m<sup>3</sup>.</p> <p>TWA 8 hours: 200 ppm.</p> <p>PEAK 15 minutes: 400 ppm.</p> <p><b>DFG MAC-values list (Germany, 7/2024)</b> Develop C.</p> <p>TWA 8 hours: 200 ppm.</p> <p>PEAK 15 minutes: 400 ppm 4 times per shift [Interval: 1 hour].</p> <p>TWA 8 hours: 750 mg/m<sup>3</sup>.</p> <p>PEAK 15 minutes: 1500 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour].</p>
Ethylbenzene	<p><b>TRGS 900 OEL (Germany, 6/2024)</b> Absorbed through skin.</p> <p>TWA 8 hours: 88 mg/m<sup>3</sup>.</p> <p>PEAK 15 minutes: 176 mg/m<sup>3</sup>.</p> <p>TWA 8 hours: 20 ppm.</p> <p>PEAK 15 minutes: 40 ppm.</p> <p><b>DFG MAC-values list (Germany, 7/2024)</b> Carc 4, Develop C.</p> <p>Absorbed through skin.</p> <p>PEAK 15 minutes: 40 ppm 4 times per shift [Interval: 1 hour].</p>

## SECTION 8: Exposure controls/personal protection

Soybean oil, epoxidized	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.
<input checked="" type="checkbox"/> Butyl acetate	<b>TRGS 900 OEL (Germany, 6/2024) [Triglyceride]</b> PEAK 15 minutes: 20 mg/m <sup>3</sup> . Form: Respirable fraction. TWA 8 hours: 5 mg/m <sup>3</sup> . Form: Respirable fraction.
2-Methoxy-1-methylethyl acetate	<b>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024)</b> TWA 8 hours: 50 ppm. TWA 8 hours: 241 mg/m <sup>3</sup> . STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m <sup>3</sup> .
Xylene	<b>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024) Absorbed through skin.</b> 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> .
Ethyl acetate	<b>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024) [ξυλόλια (όλα τα ισομερή)] Absorbed through skin.</b> 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> .
Ethylbenzene	<b>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024)</b> TWA 8 hours: 200 ppm. TWA 8 hours: 734 mg/m <sup>3</sup> . STEL 15 minutes: 1468 mg/m <sup>3</sup> . STEL 15 minutes: 400 ppm.
<input checked="" type="checkbox"/> Butyl acetate	<b>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024)</b> TWA 8 hours: 100 ppm. TWA 8 hours: 435 mg/m <sup>3</sup> . STEL 15 minutes: 125 ppm. STEL 15 minutes: 545 mg/m <sup>3</sup> .
2-Methoxy-1-methylethyl acetate	<b>5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) Sensitiser.</b> TWA 8 hours: 241 mg/m <sup>3</sup> . PEAK 15 minutes: 723 mg/m <sup>3</sup> . PEAK 15 minutes: 150 ppm. TWA 8 hours: 50 ppm.
Xylene	<b>5/2020. (II. 6.) ITM Decree (Hungary, 1/2025)</b> TWA 8 hours: 275 mg/m <sup>3</sup> . PEAK 15 minutes: 550 mg/m <sup>3</sup> . PEAK 15 minutes: 100 ppm. TWA 8 hours: 50 ppm.
Ethyl acetate	<b>5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) [xilol izomerek keveréke] Absorbed through skin.</b> TWA 8 hours: 221 mg/m <sup>3</sup> . PEAK 15 minutes: 442 mg/m <sup>3</sup> . PEAK 15 minutes: 100 ppm. TWA 8 hours: 50 ppm.
Ethylbenzene	<b>5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) Sensitiser.</b> TWA 8 hours: 734 mg/m <sup>3</sup> . PEAK 15 minutes: 1468 mg/m <sup>3</sup> . PEAK 15 minutes: 400 ppm. TWA 8 hours: 200 ppm.
	<b>5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) Absorbed through skin.</b> TWA 8 hours: 442 mg/m <sup>3</sup> .

## SECTION 8: Exposure controls/personal protection

<p> Butyl acetate</p>	<p>PEAK 15 minutes: 884 mg/m<sup>3</sup>. PEAK 15 minutes: 200 ppm. TWA 8 hours: 100 ppm.</p> <p><b>Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024)</b> <b>[bútýlasetat, allir ísómerar]</b> TWA 8 hours: 241 mg/m<sup>3</sup>. TWA 8 hours: 50 ppm. STEL 15 minutes: 723 mg/m<sup>3</sup>. STEL 15 minutes: 150 ppm.</p>
<p>2-Methoxy-1-methylethyl acetate</p>	<p><b>Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024)</b> Absorbed through skin. STEL 15 minutes: 550 mg/m<sup>3</sup>. STEL 15 minutes: 100 ppm. TWA 8 hours: 275 mg/m<sup>3</sup>. TWA 8 hours: 50 ppm.</p>
<p>Xylene</p>	<p><b>Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024)</b> <b>[Xýlen, allir ísómerar]</b> Absorbed through skin. STEL 15 minutes: 442 mg/m<sup>3</sup>. STEL 15 minutes: 100 ppm. TWA 8 hours: 109 mg/m<sup>3</sup>. TWA 8 hours: 25 ppm.</p>
<p>Ethyl acetate</p>	<p><b>Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024)</b> TWA 8 hours: 540 mg/m<sup>3</sup>. TWA 8 hours: 150 ppm.</p>
<p>Ethylbenzene</p>	<p><b>Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024)</b> Absorbed through skin. STEL 15 minutes: 884 mg/m<sup>3</sup>. STEL 15 minutes: 200 ppm. TWA 8 hours: 200 mg/m<sup>3</sup>. TWA 8 hours: 50 ppm.</p>
<p> Butyl acetate</p>	<p><b>NAOSH (Ireland, 4/2024)</b> Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 50 ppm. OELV 8 hours: 241 mg/m<sup>3</sup>. OELV 15 minutes: 150 ppm. OELV 15 minutes: 723 mg/m<sup>3</sup>.</p>
<p>2-Methoxy-1-methylethyl acetate</p>	<p><b>NAOSH (Ireland, 4/2024)</b> Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 50 ppm. OELV 8 hours: 275 mg/m<sup>3</sup>. OELV 15 minutes: 100 ppm. OELV 15 minutes: 550 mg/m<sup>3</sup>.</p>
<p>Xylene</p>	<p><b>NAOSH (Ireland, 4/2024) [xylene]</b> Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 50 ppm. OELV 8 hours: 221 mg/m<sup>3</sup>. OELV 15 minutes: 100 ppm. OELV 15 minutes: 442 mg/m<sup>3</sup>.</p>
<p>Ethyl acetate</p>	<p><b>NAOSH (Ireland, 4/2024)</b> Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 200 ppm. OELV 15 minutes: 400 ppm. OELV 15 minutes: 1468 mg/m<sup>3</sup>. OELV 8 hours: 734 mg/m<sup>3</sup>.</p>
<p>Ethylbenzene</p>	<p><b>NAOSH (Ireland, 4/2024)</b> Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 100 ppm. OELV 8 hours: 442 mg/m<sup>3</sup>. OELV 15 minutes: 200 ppm. OELV 15 minutes: 884 mg/m<sup>3</sup>.</p>

## SECTION 8: Exposure controls/personal protection

n-Butyl acetate	<p><b>Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 9/2024)</b>            Short Term 15 minutes: 150 ppm.            Short Term 15 minutes: 723 mg/m<sup>3</sup>.            Limit value 8 hours: 50 ppm.            Limit value 8 hours: 241 mg/m<sup>3</sup>.</p>
2-Methoxy-1-methylethyl acetate	<p><b>Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 9/2024)</b>            Absorbed through skin.            Limit value 8 hours: 50 ppm.            Limit value 8 hours: 275 mg/m<sup>3</sup>.            Short Term 15 minutes: 100 ppm.            Short Term 15 minutes: 550 mg/m<sup>3</sup>.</p>
Xylene	<p><b>Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 9/2024)</b>  <b>[xylene, isomeri misti, puro]</b> Absorbed through skin.            Limit value 8 hours: 50 ppm.            Limit value 8 hours: 221 mg/m<sup>3</sup>.            Short Term 15 minutes: 100 ppm.            Short Term 15 minutes: 442 mg/m<sup>3</sup>.</p>
Ethyl acetate	<p><b>Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 9/2024)</b>            Short Term 15 minutes: 400 ppm.            Short Term 15 minutes: 1468 mg/m<sup>3</sup>.            Limit value 8 hours: 200 ppm.            Limit value 8 hours: 734 mg/m<sup>3</sup>.</p>
Ethylbenzene	<p><b>Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 9/2024)</b>            Absorbed through skin.            Limit value 8 hours: 100 ppm.            Limit value 8 hours: 442 mg/m<sup>3</sup>.            Short Term 15 minutes: 200 ppm.            Short Term 15 minutes: 884 mg/m<sup>3</sup>.</p>
n-Butyl acetate	<p><b>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)</b>            TWA 8 hours: 241 mg/m<sup>3</sup>.            STEL 15 minutes: 150 ppm.            STEL 15 minutes: 723 mg/m<sup>3</sup>.            TWA 8 hours: 50 ppm.</p>
2-Methoxy-1-methylethyl acetate	<p><b>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)</b>            Absorbed through skin.            TWA 8 hours: 50 ppm.            TWA 8 hours: 275 mg/m<sup>3</sup>.            STEL 15 minutes: 100 ppm.            STEL 15 minutes: 550 mg/m<sup>3</sup>.</p>
Xylene	<p><b>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)</b>  <b>[Ksilols]</b> Absorbed through skin.            TWA 8 hours: 221 mg/m<sup>3</sup>.            TWA 8 hours: 50 ppm.            STEL 15 minutes: 100 ppm.            STEL 15 minutes: 442 mg/m<sup>3</sup>.</p>
Ethyl acetate	<p><b>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)</b>            TWA 8 hours: 200 mg/m<sup>3</sup>.            STEL 15 minutes: 400 ppm.            STEL 15 minutes: 1468 mg/m<sup>3</sup>.            TWA 8 hours: 54 ppm.</p>
Ethylbenzene	<p><b>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)</b>            Absorbed through skin.            TWA 8 hours: 442 mg/m<sup>3</sup>.            TWA 8 hours: 100 ppm.            STEL 15 minutes: 200 ppm.            STEL 15 minutes: 884 mg/m<sup>3</sup>.</p>

## SECTION 8: Exposure controls/personal protection

n-Butyl acetate	<p><b>Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)</b>            TWA 8 hours: 241 mg/m<sup>3</sup>.            TWA 8 hours: 50 ppm.            STEL 15 minutes: 723 mg/m<sup>3</sup>.            STEL 15 minutes: 150 ppm.</p>
2-Methoxy-1-methylethyl acetate	<p><b>Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)</b>            Absorbed through skin.            TWA 8 hours: 250 mg/m<sup>3</sup>.            TWA 8 hours: 50 ppm.            STEL 15 minutes: 400 mg/m<sup>3</sup>.            STEL 15 minutes: 75 ppm.</p>
Xylene	<p><b>Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)</b>  <b>[ksilenas, mišrūs izomerai, grynas]</b> Absorbed through skin.            STEL 15 minutes: 442 mg/m<sup>3</sup>.            TWA 8 hours: 50 ppm.            STEL 15 minutes: 100 ppm.            TWA 8 hours: 221 mg/m<sup>3</sup>.</p>
Ethyl acetate	<p><b>Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)</b>            TWA 8 hours: 500 mg/m<sup>3</sup>.            TWA 8 hours: 150 ppm.            CEIL: 1100 mg/m<sup>3</sup>.            CEIL: 300 ppm.</p>
Ethylbenzene	<p><b>Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)</b>            Absorbed through skin.            TWA 8 hours: 442 mg/m<sup>3</sup>.            TWA 8 hours: 100 ppm.            STEL 15 minutes: 884 mg/m<sup>3</sup>.            STEL 15 minutes: 200 ppm.</p>
propylidynetrimethanol	<p><b>Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)</b>            CEIL: 5 ppm.</p>
n-Butyl acetate	<p><b>Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021)</b>            STEL 15 minutes: 150 ppm.            STEL 15 minutes: 723 mg/m<sup>3</sup>.            TWA 8 hours: 50 ppm.            TWA 8 hours: 241 mg/m<sup>3</sup>.</p>
2-Methoxy-1-methylethyl acetate	<p><b>Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021)</b> Absorbed through skin.            TWA 8 hours: 50 ppm.            TWA 8 hours: 275 mg/m<sup>3</sup>.            STEL 15 minutes: 100 ppm.            STEL 15 minutes: 550 mg/m<sup>3</sup>.</p>
Xylene	<p><b>Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) [xylène Isomères mixtes, pures]</b>            Absorbed through skin.            TWA 8 hours: 50 ppm.            TWA 8 hours: 221 mg/m<sup>3</sup>.            STEL 15 minutes: 100 ppm.            STEL 15 minutes: 442 mg/m<sup>3</sup>.</p>
Ethyl acetate	<p><b>Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021)</b>            STEL 15 minutes: 400 ppm.            STEL 15 minutes: 1468 mg/m<sup>3</sup>.            TWA 8 hours: 200 ppm.            TWA 8 hours: 734 mg/m<sup>3</sup>.</p>
Ethylbenzene	<p><b>Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021)</b> Absorbed through skin.            TWA 8 hours: 100 ppm.            TWA 8 hours: 442 mg/m<sup>3</sup>.            STEL 15 minutes: 200 ppm.            STEL 15 minutes: 884 mg/m<sup>3</sup>.</p>

## SECTION 8: Exposure controls/personal protection

Butyl acetate	<p><b>EU OEL (Europe, 1/2022)</b>            STEL 15 minutes: 150 ppm.            STEL 15 minutes: 723 mg/m<sup>3</sup>.            TWA 8 hours: 241 mg/m<sup>3</sup>.            TWA 8 hours: 50 ppm.</p>
2-Methoxy-1-methylethyl acetate	<p><b>EU OEL (Europe, 1/2022)</b> Absorbed through skin.            TWA 8 hours: 50 ppm.            TWA 8 hours: 275 mg/m<sup>3</sup>.            STEL 15 minutes: 100 ppm.            STEL 15 minutes: 550 mg/m<sup>3</sup>.</p>
Xylene	<p><b>EU OEL (Europe, 1/2022) [xylene, mixed isomers]</b> Absorbed through skin.            TWA 8 hours: 50 ppm.            TWA 8 hours: 221 mg/m<sup>3</sup>.            STEL 15 minutes: 100 ppm.            STEL 15 minutes: 442 mg/m<sup>3</sup>.</p>
Ethyl acetate	<p><b>EU OEL (Europe, 1/2022)</b>            STEL 15 minutes: 400 ppm.            STEL 15 minutes: 1468 mg/m<sup>3</sup>.            TWA 8 hours: 200 ppm.            TWA 8 hours: 734 mg/m<sup>3</sup>.</p>
Ethylbenzene	<p><b>EU OEL (Europe, 1/2022)</b> Absorbed through skin.            TWA 8 hours: 100 ppm.            TWA 8 hours: 442 mg/m<sup>3</sup>.            STEL 15 minutes: 200 ppm.            STEL 15 minutes: 884 mg/m<sup>3</sup>.</p>
Butyl acetate	<p><b>Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024)</b>            TWA 8 hours: 241 mg/m<sup>3</sup>.            STEL 15 minutes: 723 mg/m<sup>3</sup>.            STEL 15 minutes: 150 ppm.            TWA 8 hours: 50 ppm.</p>
2-Methoxy-1-methylethyl acetate	<p><b>Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024)</b>            TWA 8 hours: 550 mg/m<sup>3</sup>.            TWA 8 hours: 100 ppm.</p>
Xylene	<p><b>Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) [xyleen, o-, m-, p-isomeren]</b> Absorbed through skin.            TWA 8 hours: 210 mg/m<sup>3</sup>.            STEL 15 minutes: 442 mg/m<sup>3</sup>.            STEL 15 minutes: 100 ppm.            TWA 8 hours: 47.5 ppm.</p>
Ethyl acetate	<p><b>Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024)</b>            STEL 15 minutes: 1468 mg/m<sup>3</sup>.            TWA 8 hours: 734 mg/m<sup>3</sup>.            STEL 15 minutes: 400 ppm.            TWA 8 hours: 200 ppm.</p>
Ethylbenzene	<p><b>Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024)</b> Absorbed through skin.            TWA 8 hours: 215 mg/m<sup>3</sup>.            STEL 15 minutes: 430 mg/m<sup>3</sup>.            STEL 15 minutes: 97.3 ppm.            TWA 8 hours: 48.6 ppm.</p>
Butyl acetate	<p><b>FOR-2011-12-06-1358 (Norway, 5/2024)</b>            STEL 15 minutes: 723 mg/m<sup>3</sup>.            STEL 15 minutes: 150 ppm.            TWA 8 hours: 241 mg/m<sup>3</sup>.            TWA 8 hours: 50 ppm.</p>
2-Methoxy-1-methylethyl acetate	<p><b>FOR-2011-12-06-1358 (Norway, 5/2024)</b> Absorbed through skin.            TWA 8 hours: 50 ppm.</p>

## SECTION 8: Exposure controls/personal protection

Xylene	TWA 8 hours: 270 mg/m <sup>3</sup> . <b>FOR-2011-12-06-1358 (Norway, 5/2024) [xylen]</b> Absorbed through skin.
Ethyl acetate	TWA 8 hours: 25 ppm. TWA 8 hours: 108 mg/m <sup>3</sup> . <b>FOR-2011-12-06-1358 (Norway, 5/2024)</b>
Ethylbenzene	TWA 8 hours: 200 ppm. TWA 8 hours: 734 mg/m <sup>3</sup> . STEL 15 minutes: 1468 mg/m <sup>3</sup> . STEL 15 minutes: 400 ppm. <b>FOR-2011-12-06-1358 (Norway, 5/2024)</b> Carc. Absorbed through skin.
n-Butyl acetate	TWA 8 hours: 5 ppm. TWA 8 hours: 20 mg/m <sup>3</sup> . <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>
2-Methoxy-1-methylethyl acetate	TWA 8 hours: 240 mg/m <sup>3</sup> . STEL 15 minutes: 720 mg/m <sup>3</sup> . <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.
Xylene	TWA 8 hours: 260 mg/m <sup>3</sup> . STEL 15 minutes: 520 mg/m <sup>3</sup> . <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.
Ethyl acetate	TWA 8 hours: 100 mg/m <sup>3</sup> . STEL 15 minutes: 200 mg/m <sup>3</sup> . <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>
Ethylbenzene	TWA 8 hours: 734 mg/m <sup>3</sup> . STEL 15 minutes: 1468 mg/m <sup>3</sup> . STEL 15 minutes: 400 ppm. TWA 8 hours: 200 ppm. <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.
n-Butyl acetate	TWA 8 hours: 200 mg/m <sup>3</sup> . STEL 15 minutes: 400 mg/m <sup>3</sup> . <b>Portuguese Institute of Quality (Portugal, 11/2014)</b>
2-Methoxy-1-methylethyl acetate	TWA 8 hours: 150 ppm. STEL 15 minutes: 200 ppm. <b>Decree-Law 24/2012 - Occupational exposure limits for chemical agents (Portugal, 6/2021)</b>
	STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m <sup>3</sup> . TWA 8 hours: 50 ppm. TWA 8 hours: 241 mg/m <sup>3</sup> . <b>Decree-Law 24/2012 - Occupational exposure limits for</b>

## SECTION 8: Exposure controls/personal protection

Xylene	<p><b>chemical agents (Portugal, 6/2021)</b> Absorbed through skin.          STEL 15 minutes: 100 ppm.          STEL 15 minutes: 550 mg/m<sup>3</sup>.          TWA 8 hours: 50 ppm.          TWA 8 hours: 275 mg/m<sup>3</sup>.</p> <p><b>Portuguese Institute of Quality (Portugal, 11/2014) [xileno (isómeros o, m &amp; p)] A4.</b>          TWA 8 hours: 100 ppm.          STEL 15 minutes: 150 ppm.</p> <p><b>Decree-Law 24/2012 - Occupational exposure limits for chemical agents (Portugal, 6/2021) [xilenos]</b> Absorbed through skin.          STEL 15 minutes: 100 ppm.          STEL 15 minutes: 442 mg/m<sup>3</sup>.          TWA 8 hours: 50 ppm.          TWA 8 hours: 221 mg/m<sup>3</sup>.</p>
Ethyl acetate	<p><b>Portuguese Institute of Quality (Portugal, 11/2014)</b>          TWA 8 hours: 400 ppm.</p> <p><b>Decree-Law 24/2012 - Occupational exposure limits for chemical agents (Portugal, 6/2021)</b>          STEL 15 minutes: 400 ppm.          STEL 15 minutes: 1468 mg/m<sup>3</sup>.          TWA 8 hours: 200 ppm.          TWA 8 hours: 734 mg/m<sup>3</sup>.</p>
Ethylbenzene	<p><b>Portuguese Institute of Quality (Portugal, 11/2014) A3.</b>          TWA 8 hours: 20 ppm.</p> <p><b>Decree-Law 24/2012 - Occupational exposure limits for chemical agents (Portugal, 6/2021)</b> Absorbed through skin.          STEL 15 minutes: 200 ppm.          STEL 15 minutes: 884 mg/m<sup>3</sup>.          TWA 8 hours: 100 ppm.          TWA 8 hours: 442 mg/m<sup>3</sup>.</p>
n-Butyl acetate	<p><b>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024)</b>          VLA 8 hours: 241 mg/m<sup>3</sup>.          VLA 8 hours: 50 ppm.          Short term 15 minutes: 723 mg/m<sup>3</sup>.          Short term 15 minutes: 150 ppm.</p>
2-Methoxy-1-methylethyl acetate	<p><b>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024)</b> Absorbed through skin.          VLA 8 hours: 275 mg/m<sup>3</sup>.          VLA 8 hours: 50 ppm.          Short term 15 minutes: 550 mg/m<sup>3</sup>.          Short term 15 minutes: 100 ppm.</p>
Xylene	<p><b>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) [xilen]</b> Absorbed through skin.          VLA 8 hours: 221 mg/m<sup>3</sup>.          VLA 8 hours: 50 ppm.          Short term 15 minutes: 442 mg/m<sup>3</sup>.          Short term 15 minutes: 100 ppm.</p>
Ethyl acetate	<p><b>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024)</b>          VLA 8 hours: 734 mg/m<sup>3</sup>.          VLA 8 hours: 200 ppm.          Short term 15 minutes: 1468 mg/m<sup>3</sup>.          Short term 15 minutes: 400 ppm.</p>
Ethylbenzene	<p><b>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024)</b> Absorbed through skin.          VLA 8 hours: 442 mg/m<sup>3</sup>.          VLA 8 hours: 100 ppm.          Short term 15 minutes: 884 mg/m<sup>3</sup>.          Short term 15 minutes: 200 ppm.</p>

## SECTION 8: Exposure controls/personal protection

<p> Butyl acetate</p>	<p><b>Government regulation SR c. 355/2006 (Slovakia, 6/2024)</b>  <b>[butylacetáty]</b> Inhalation sensitiser.            TWA 8 hours: 241 mg/m<sup>3</sup> (Butyl acetates).            TWA 8 hours: 50 ppm (Butyl acetates).            STEL 15 minutes: 723 mg/m<sup>3</sup> (Butyl acetates).            STEL 15 minutes: 150 ppm (Butyl acetates).</p>
<p>2-Methoxy-1-methylethyl acetate</p>	<p><b>Government regulation SR c. 355/2006 (Slovakia, 6/2024)</b>            Absorbed through skin , Inhalation sensitiser.            TWA 8 hours: 275 mg/m<sup>3</sup>.            TWA 8 hours: 50 ppm.            STEL 15 minutes: 550 mg/m<sup>3</sup>.            STEL 15 minutes: 100 ppm.</p>
<p>Xylene</p>	<p><b>Government regulation SR c. 355/2006 (Slovakia, 6/2024)</b>  <b>[xylén, zmiešané izoméry]</b> Absorbed through skin , Inhalation sensitiser.            TWA 8 hours: 221 mg/m<sup>3</sup> (xylene, mixed isomers).            TWA 8 hours: 50 ppm (xylene, mixed isomers).            STEL 15 minutes: 442 mg/m<sup>3</sup> (xylene, mixed isomers).            STEL 15 minutes: 100 ppm (xylene, mixed isomers).</p>
<p>Ethyl acetate</p>	<p><b>Government regulation SR c. 355/2006 (Slovakia, 6/2024)</b>            Inhalation sensitiser.            TWA 8 hours: 734 mg/m<sup>3</sup>.            TWA 8 hours: 200 ppm.            STEL 15 minutes: 1468 mg/m<sup>3</sup>.            STEL 15 minutes: 400 ppm.</p>
<p>Ethylbenzene</p>	<p><b>Government regulation SR c. 355/2006 (Slovakia, 6/2024)</b>            Absorbed through skin , Inhalation sensitiser.            TWA 8 hours: 442 mg/m<sup>3</sup>.            TWA 8 hours: 100 ppm.            STEL 15 minutes: 884 mg/m<sup>3</sup>.            STEL 15 minutes: 200 ppm.</p>
<p> Butyl acetate</p>	<p><b>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)</b>            TWA 8 hours: 241 mg/m<sup>3</sup>.            TWA 8 hours: 50 ppm.            KTV 15 minutes: 723 mg/m<sup>3</sup> 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].            KTV 15 minutes: 150 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].</p>
<p>2-Methoxy-1-methylethyl acetate</p>	<p><b>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)</b>            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].</p>
<p>Xylene</p>	<p><b>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)</b>  <b>[ksilen]</b> 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].</p>
<p>Ethyl acetate</p>	<p><b>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)</b>            TWA 8 hours: 734 mg/m<sup>3</sup>.            TWA 8 hours: 200 ppm.            KTV 15 minutes: 1468 mg/m<sup>3</sup> 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].</p>

## SECTION 8: Exposure controls/personal protection

Ethylbenzene	<p>KTV 15 minutes: 400 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].</p> <p><b>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)</b>          Absorbed through skin.          TWA 8 hours: 442 mg/m<sup>3</sup>.          TWA 8 hours: 100 ppm.          KTV 15 minutes: 884 mg/m<sup>3</sup> 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].          KTV 15 minutes: 200 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].</p>
n-Butyl acetate	<p><b>National institute of occupational safety and health (Spain, 1/2024)</b>          TWA 8 hours: 50 ppm.          TWA 8 hours: 241 mg/m<sup>3</sup>.          STEL 15 minutes: 150 ppm.          STEL 15 minutes: 723 mg/m<sup>3</sup>.</p>
2-Methoxy-1-methylethyl acetate	<p><b>National institute of occupational safety and health (Spain, 1/2024)</b> Absorbed through skin.          TWA 8 hours: 50 ppm.          TWA 8 hours: 275 mg/m<sup>3</sup>.          STEL 15 minutes: 100 ppm.          STEL 15 minutes: 550 mg/m<sup>3</sup>.</p>
Xylene	<p><b>National institute of occupational safety and health (Spain, 1/2024) [xileno, mezcla isómeros]</b> Absorbed through skin.          TWA 8 hours: 50 ppm.          TWA 8 hours: 221 mg/m<sup>3</sup>.          STEL 15 minutes: 100 ppm.          STEL 15 minutes: 442 mg/m<sup>3</sup>.</p>
Ethyl acetate	<p><b>National institute of occupational safety and health (Spain, 1/2024)</b>          TWA 8 hours: 200 ppm.          TWA 8 hours: 734 mg/m<sup>3</sup>.          STEL 15 minutes: 1468 mg/m<sup>3</sup>.          STEL 15 minutes: 400 ppm.</p>
Ethylbenzene	<p><b>National institute of occupational safety and health (Spain, 1/2024)</b> Absorbed through skin.          TWA 8 hours: 100 ppm.          TWA 8 hours: 441 mg/m<sup>3</sup>.          STEL 15 minutes: 200 ppm.          STEL 15 minutes: 884 mg/m<sup>3</sup>.</p>
n-Butyl acetate	<p><b>Work environment authority Regulation 2018:1 (Sweden, 11/2022) [butyl acetate]</b>          TWA 8 hours: 50 ppm.          TWA 8 hours: 241 mg/m<sup>3</sup>.          STEL 15 minutes: 150 ppm.          STEL 15 minutes: 723 mg/m<sup>3</sup>.</p>
2-Methoxy-1-methylethyl acetate	<p><b>Work environment authority Regulation 2018:1 (Sweden, 11/2022)</b> Absorbed through skin.          TWA 8 hours: 50 ppm.          TWA 8 hours: 275 mg/m<sup>3</sup>.          STEL 15 minutes: 100 ppm.          STEL 15 minutes: 550 mg/m<sup>3</sup>.</p>
Xylene	<p><b>Work environment authority Regulation 2018:1 (Sweden, 11/2022) [xylene]</b> Absorbed through skin.          TWA 8 hours: 50 ppm.          TWA 8 hours: 221 mg/m<sup>3</sup>.          STEL 15 minutes: 100 ppm.          STEL 15 minutes: 442 mg/m<sup>3</sup>.</p>
Ethyl acetate	<p><b>Work environment authority Regulation 2018:1 (Sweden, 11/2022)</b></p>

## SECTION 8: Exposure controls/personal protection

Ethylbenzene	<p>TWA 8 hours: 150 ppm. TWA 8 hours: 550 mg/m<sup>3</sup>. STEL 15 minutes: 300 ppm. STEL 15 minutes: 1100 mg/m<sup>3</sup>.</p> <p><b>Work environment authority Regulation 2018:1 (Sweden, 11/2022)</b> Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 220 mg/m<sup>3</sup>. STEL 15 minutes: 200 ppm. STEL 15 minutes: 884 mg/m<sup>3</sup>.</p>
propylidynetrimethanol	<p><b>Work environment authority Regulation 2018:1 (Sweden, 11/2022)</b></p> <p>TWA 8 hours: 5 mg/m<sup>3</sup>.</p>
<input checked="" type="checkbox"/> Butyl acetate	<p><b>SUVA (Switzerland, 1/2025)</b></p> <p>TWA 8 hours: 50 ppm. TWA 8 hours: 240 mg/m<sup>3</sup>. STEL 15 minutes: 150 ppm. STEL 15 minutes: 720 mg/m<sup>3</sup>.</p>
2-Methoxy-1-methylethyl acetate	<p><b>SUVA (Switzerland, 1/2025)</b></p> <p>TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm. STEL 15 minutes: 275 mg/m<sup>3</sup>.</p>
Xylene	<p><b>SUVA (Switzerland, 1/2025) [Xylol]</b> Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 220 mg/m<sup>3</sup>. STEL 15 minutes: 100 ppm. STEL 15 minutes: 440 mg/m<sup>3</sup>.</p>
Ethyl acetate	<p><b>SUVA (Switzerland, 1/2025)</b></p> <p>STEL 15 minutes: 400 ppm. STEL 15 minutes: 1460 mg/m<sup>3</sup>. TWA 8 hours: 200 ppm. TWA 8 hours: 730 mg/m<sup>3</sup>.</p>
Ethylbenzene	<p><b>SUVA (Switzerland, 1/2025)</b> Absorbed through skin , Ototoxicant. TWA 8 hours: 50 ppm. TWA 8 hours: 220 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm. STEL 15 minutes: 220 mg/m<sup>3</sup>.</p>
Soybean oil, epoxidized	<p><b>SUVA (Switzerland, 1/2025) [Triglyceride]</b></p> <p>STEL 15 minutes: 20 mg/m<sup>3</sup>. Form: Inhalable fraction. TWA 8 hours: 5 mg/m<sup>3</sup>. Form: Inhalable fraction.</p>
<input checked="" type="checkbox"/> Butyl acetate	<p><b>EH40/2005 WELs (United Kingdom (UK), 1/2020)</b></p> <p>STEL 15 minutes: 966 mg/m<sup>3</sup>. STEL 15 minutes: 200 ppm. TWA 8 hours: 724 mg/m<sup>3</sup>. TWA 8 hours: 150 ppm.</p>
Xylene	<p><b>EH40/2005 WELs (United Kingdom (UK), 1/2020) [xylene, o-,m-, p- or mixed isomers]</b> Absorbed through skin. STEL 15 minutes: 441 mg/m<sup>3</sup>. TWA 8 hours: 50 ppm. TWA 8 hours: 220 mg/m<sup>3</sup>. STEL 15 minutes: 100 ppm.</p>
Ethyl acetate	<p><b>EH40/2005 WELs (United Kingdom (UK), 1/2020)</b></p> <p>STEL 15 minutes: 400 ppm. TWA 8 hours: 200 ppm. STEL 15 minutes: 1468 mg/m<sup>3</sup>. TWA 8 hours: 734 mg/m<sup>3</sup>.</p>
Ethylbenzene	<p><b>EH40/2005 WELs (United Kingdom (UK), 1/2020)</b> Absorbed through skin. STEL 15 minutes: 552 mg/m<sup>3</sup>. STEL 15 minutes: 125 ppm. TWA 8 hours: 100 ppm.</p>

## SECTION 8: Exposure controls/personal protection

TWA 8 hours: 441 mg/m<sup>3</sup>.

### Biological exposure indices

Product/ingredient name	Exposure indices
Xylene	<b>VGU BEI (Austria, 9/2020) [Xylolol]</b> BEI Fitness: 1000 µg/l, xylene [in blood]. Sampling time: one year. 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> significant skin resorption possible BLV: 2000 mg/g creatinine, mandelic acid and phenylglyoxylic acid – in total [in urine]. Sampling time: at the end of the exposure or at the end of the work shift.
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> BEI: 1.5 mg/l, xylene [in blood]. Sampling time: at the end of the work shift. BEI: 14.13 µmol/l, xylene [in blood]. Sampling time: at the end of the work shift. BEI: 0.88 mol/mol creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift. BEI: 1.5 g/g creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift.
Ethylbenzene	<b>Ordinance on the protection of workers from exposure to hazardous chemicals at work, biological limit values (Annex IV) (Croatia, 12/2023)</b> BEI: 1.5 mg/l, ethylbenzene [in blood]. Sampling time: during exposure. BEI: 14.1 µmol/l, ethylbenzene [in blood]. Sampling time: during exposure. BEI: 1.12 mol/mol creatinine, almond acid [in urine]. Sampling time: at the end of the work shift and at the end of the working week. BEI: 1.5 g/g creatinine, almond acid [in urine]. Sampling time: at the end of the work shift and at the end of the working week.
No exposure indices known.	
Xylene	<b>Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015) [Xyleny]</b> Biological limit values: 820 µmol/mmol creatinine, methylhippuric acid [in urine]. Sampling time: end of the shift. Biological limit values: 1400 mg/g creatinine, methylhippuric acid [in urine]. Sampling time: end of the shift.
Ethylbenzene	<b>Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015)</b> Biological limit values: 1100 µmol/mmol creatinine, almond acid [in urine]. Sampling time: end of the shift. Biological limit values: 1500 mg/g creatinine, almond acid [in urine]. Sampling time: end of the shift.
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	

## SECTION 8: Exposure controls/personal protection

<p>Xylene</p>	<p><b>Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) [Ksyleeni]</b> BEI: 5 mmol/l, methylhippuric acid [in urine]. Sampling time: at the end of the work shift.</p>
<p>Ethylbenzene</p>	<p><b>Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020)</b> BEI: 5.2 mmol/l, mandelic acid [in urine]. Sampling time: after work shift at the end of the working week or exposure period.</p>
<p>No exposure indices known.</p>	
<p>Xylene</p>	<p><b>DFG BEI-values list (Germany, 7/2024) [Xylene (all isomers)]</b> Notes: danger from percutaneous absorption (see p. 211 and p. 228). BEI: 1800 mg/g creatinine, Methylhippuric acids (=toluric acids) (all isomers) [in urine]. Sampling time: end of exposure or end of shift. <b>TRGS 903 - BEI Values (Germany, 10/2024) [Xylol alle Isomeren]</b> BEI: 2000 mg/l, methylhippuric acid [in urine]. Sampling time: end of exposure or end of shift.</p>
<p>Ethylbenzene</p>	<p><b>DFG BEI-values list (Germany, 7/2024)</b> Notes: danger from percutaneous absorption (see p. 211 and p. 228). BEI: 250 mg/g creatinine, mandelic acid plus phenyl glyoxylic acid [in urine]. Sampling time: end of exposure or end of shift. <b>TRGS 903 - BEI Values (Germany, 10/2024)</b> BEI: 250 mg/g creatinine, mandelic acid plus phenylglyoxylic acid [in urine]. Sampling time: end of exposure or end of shift.</p>
<p>No exposure indices known.</p>	
<p>Xylene</p>	<p><b>5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) [xiloI]</b> BEI: 1500 mg/g creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the shift. BEI: 860 µmol/mmol creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the shift.</p>
<p>Ethylbenzene</p>	<p><b>5/2020. (II. 6.) ITM Decree (Hungary, 12/2023)</b> BEI: 1500 mg/g creatinine, mandelic acid [in urine]. Sampling time: at the end of the working week; at the end of the shift. BEI: 1110 µmol/mmol creatinine, mandelic acid [in urine]. Sampling time: at the end of the working week; at the end of the shift.</p>
<p>No exposure indices known.</p>	
<p>Xylene</p>	<p><b>NAOSH BGVs (Ireland, 1/2011) [Xylene]</b> BMGV: 1.5 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.</p>
<p>Ethylbenzene</p>	<p><b>NAOSH BGVs (Ireland, 1/2011)</b> BMGV: Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative interpretation of the measurement is ambiguous. These analytes should be used as a screening test if a quantitative test is not practical; or as a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question., ethylbenzene [in endexhaled air]. Sampling time: not critical. BMGV: 0.7 g/g creatinine [Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative interpretation of the measurement is ambiguous. These analytes should be used as a screening test if a quantitative test is not practical; or as a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question.], mandelic acid and phenylglyoxylic acid [in urine]. Sampling time:</p>

## SECTION 8: Exposure controls/personal protection

No exposure indices known.

Xylene

No exposure indices known.

Xylene

Ethylbenzene

Xylene

Ethylbenzene

Xylene

Ethylbenzene

end of shift at end of workweek.

**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.

**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.

**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.

**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.

**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-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

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

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

BLV: 10590 µmol/l, as mandelic acid and phenylglyoxylic acid [in

## SECTION 8: Exposure controls/personal protection

	<p>urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.</p> <p>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.</p> <p>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.</p> <p>BLV: 12 mg/l, as 2 or 4-ethylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.</p>
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>
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>
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>
Xylene	<p><b>EH40/2005 BMGVs (United Kingdom (UK), 1/2020) [Xylene, o-, m-, p- or mixed isomers]</b></p> <p>BGV: 650 mmol/mol creatinine, methyl hippuric acid [in urine]. Sampling time: post shift.</p>

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

### DNELs/DMELs

**Product/ingredient name**

**Result**

## SECTION 8: Exposure controls/personal protection

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>

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

2-Methoxy-1-methylethyl acetate

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

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

Effects: Local

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

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

Effects: Systemic

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

36 mg/kg bw/day

## SECTION 8: Exposure controls/personal protection

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

Xylene

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

5 mg/kg bw/day

Effects: Systemic

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

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

Effects: Local

**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

Ethyl acetate

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

4.5 mg/kg bw/day

Effects: Systemic

## SECTION 8: Exposure controls/personal protection

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

37 mg/kg bw/day

Effects: Systemic

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

63 mg/kg bw/day

Effects: Systemic

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

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

Effects: Local

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

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

Effects: Systemic

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

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

Effects: Local

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

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

Effects: Systemic

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

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

Effects: Local

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

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

Effects: Systemic

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

1468 mg/m<sup>3</sup>

Effects: Local

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

1468 mg/m<sup>3</sup>

Effects: Systemic

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>

## SECTION 8: Exposure controls/personal protection

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

Effects: Local

**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

**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

propylidynetrimethanol

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

0.34 mg/kg bw/day

Effects: Systemic

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

0.34 mg/kg bw/day

Effects: Systemic

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

0.58 mg/m<sup>3</sup>

Effects: Systemic

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

0.94 mg/kg bw/day

Effects: Systemic

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

3.3 mg/m<sup>3</sup>

Effects: Systemic

### PNECs

Not available.

### 8.2 Exposure controls

#### **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.

## SECTION 8: Exposure controls/personal protection

- 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: safety glasses with side-shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Recommendations : Wear suitable gloves tested to EN374.
- < 1 hour (breakthrough time): Nitrile gloves. thickness > 0.3 mm
- 1 - 4 hours (breakthrough time): 4H / Silver Shield® gloves.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
- Filter type: A
- Filter type (spray application): A P
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

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

### 9.1 Information on basic physical and chemical properties

#### Appearance

- Physical state** : Liquid.
- Colour** : Various
- Odour** : Slight
- Odour threshold** : Not available.
- Melting point/freezing point** : Not available.
- Initial boiling point and boiling range** :

Ingredient name	°C	°F	Method
Ethyl acetate	77.1	170.8	
n-Butyl acetate	126	258.8	OECD 103

- Flammability** : Not available.
- Lower and upper explosion limit** : Lower: 0.8% (xylene)  
Upper: 11.5% (ethyl acetate)
- Flash point** : Closed cup: 27°C (80.6°F)

## SECTION 9: Physical and chemical properties

**Auto-ignition temperature** :

Ingredient name	°C	°F	Method
<input checked="" type="checkbox"/> Methoxy-1-methylethyl acetate	333	631.4	DIN 51794
n-Butyl acetate	415	779	EU A.15

**Decomposition temperature** : Not available.

**pH** : Not applicable.

**Viscosity** :  Not available.

**Solubility(ies)** :

Not available.

**Solubility in water** : Not available.

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

**Vapour pressure** :

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
Ethyl acetate	81.59163	10.9				
n-Butyl acetate	11.25096	1.5	DIN EN 13016-2			

**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

n-Butyl acetate

##### Result

**Rat - Oral - LD50**  
10760 mg/kg  
EU

**Rabbit - Dermal - LD50**  
14112 mg/kg

**Rat - Inhalation - LC50 Vapour**  
0.74 mg/l [4 hours]

2-Methoxy-1-methylethyl acetate

**Rat - Oral - LD50**  
8532 mg/kg

**Rabbit - Dermal - LD50**  
>5 g/kg

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]

Ethyl acetate

**Rat - Oral - LD50**  
5620 mg/kg

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

**Rat - Oral - LD50**  
3230 mg/kg

**Rat - Dermal - LD50**  
>3170 mg/kg

propylidynetrimethanol

**Rat - Oral - LD50**  
14000 mg/kg

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

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
<input checked="" type="checkbox"/> WOFINE 4364-20	N/A	16933.6	N/A	138.3	N/A
n-Butyl acetate	10760	14112	N/A	N/A	N/A
2-Methoxy-1-methylethyl acetate	8532	N/A	N/A	N/A	N/A
Xylene	4300	1100	N/A	11	N/A
Ethyl acetate	5620	N/A	N/A	N/A	N/A
Ethylbenzene	3500	15400	N/A	11	29000
Reaction mass of Bis(1,2,2,6,6-pentamethyl-	3230	N/A	N/A	N/A	N/A

Date of issue/Date of revision

: 27/01/2026

Date of previous issue

: 13/02/2024

Version : 1.01 33/46

WOFINE 4364-20 - All variants

Label No :  40005

## SECTION 11: Toxicological information

4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate propylidynetrimethanol	14000	N/A	N/A	N/A	N/A
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### Skin corrosion/irritation

#### Product/ingredient name

Butyl acetate

Xylene

Ethylbenzene

#### Result

##### Rabbit - Skin - Moderate irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 500 mg

##### 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 %

##### Rabbit - Skin - Mild irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 15 mg

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

### Serious eye damage/eye irritation

#### Product/ingredient name

Butyl acetate

Xylene

Ethylbenzene

#### Result

##### Rabbit - Eyes - Moderate irritant

Amount/concentration applied: 100 mg

##### 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 - Severe irritant

Amount/concentration applied: 500 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.

## SECTION 11: Toxicological information

### Germ cell mutagenicity

Not available.

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

### Carcinogenicity

Not available.

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

### Reproductive toxicity

Not available.

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

### Specific target organ toxicity (single exposure)

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

Butyl acetate  
Xylene  
Ethyl acetate

#### **Result**

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

### Specific target organ toxicity (repeated exposure)

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

Xylene  
Ethylbenzene

#### **Result**

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

### Aspiration hazard

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

Xylene  
Ethylbenzene

#### **Result**

ASPIRATION HAZARD - Category 1  
ASPIRATION HAZARD - Category 1

### Information on likely routes of exposure

Not available.

### Potential acute health effects

- Eye contact** :  No known significant effects or critical hazards.
- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
- Skin contact** :  May cause an allergic skin reaction.
- Ingestion** : Can cause central nervous system (CNS) depression.

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

- Eye contact** :  No specific data.
- Inhalation** : Adverse symptoms may include the following:  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness
- Skin contact** :  Adverse symptoms may include the following:  
irritation  
redness
- Ingestion** : No specific data.

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

#### Short term exposure

**Potential immediate effects** : Not available.

## SECTION 11: Toxicological information

**Potential delayed effects** : Not available.

### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

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

**General** :  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**

Butyl acetate

Ethyl acetate

#### **Result**

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

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

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

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

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

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

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

Fish - Indian catfish - *Heteropneustes fossilis*  
Size: 14.16 cm; Weight: 25.54 g  
212500 µg/l [96 hours]  
Effect: Mortality

##### **Acute - EC50 - Fresh water**

Algae - Green algae - *Selenastrum sp.*  
2500000 µg/l [96 hours]

##### **Chronic - NOEC - Fresh water**

Daphnia - Water flea - *Daphnia magna*  
12 mg/l [21 days]  
Effect: Behavior

##### **Chronic - NOEC - Fresh water**

Fish - Fathead minnow - *Pimephales promelas* - Embryo

## SECTION 12: Ecological information

Age: <24 hours  
75.6 mg/l [32 days]  
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]

propylidynetrimethanol

**Acute - EC50 - Fresh water**  
Daphnia - Water flea - *Daphnia magna*  
Age: 1 to 3 days  
13000000 µg/l [48 hours]  
Effect: Intoxication

**Acute - LC50 - Marine water**  
Fish - Sheepshead minnow - *Cyprinodon variegatus*  
14400000 µg/l [96 hours]  
Effect: Mortality

**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
<input checked="" type="checkbox"/> Butyl acetate	2.3	-	Low
2-Methoxy-1-methylethyl acetate	1.2	-	Low
Xylene	3.12	8.1 to 25.9	Low
Ethyl acetate	0.68	30	Low
Ethylbenzene	3.6	-	Low
propylidynetrimethanol	-0.47	<1 [OECD 305 C]	Low

### 12.4 Mobility in soil

#### Soil/water partition coefficient

Product/ingredient name	logK <sub>oc</sub>	K <sub>oc</sub>
<input checked="" type="checkbox"/> Butyl acetate	1.5	33.2139
2-Methoxy-1-methylethyl acetate	0.36	2.31363
Ethyl acetate	1.3	18.1744
Ethylbenzene	2.2	170.406
propylidynetrimethanol	1.2	16.5101

#### Results of PMT and vPvM assessment

## SECTION 12: Ecological information

Product/ingredient name	PMT	P	M	T	vPvM	vP	vM
<input checked="" type="checkbox"/> Butyl acetate	No	No	No	No	No	No	No
2-Methoxy-1-methylethyl acetate	No	No	No	No	No	No	No
Xylene	No	No	No	No	No	No	No
Ethyl 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-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl) propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl) propionyloxypoly(oxyethylene)	No	No	No	No	No	No	No
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
propylidynetrimethanol	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
<input checked="" type="checkbox"/> Butyl acetate	No	N/A	N/A	No	N/A	N/A	N/A
2-Methoxy-1-methylethyl acetate	No	N/A	N/A	No	N/A	N/A	N/A
Xylene	No	N/A	No	Yes	No	N/A	No
Ethyl acetate	No	N/A	No	No	No	N/A	No
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
propylidynetrimethanol	No	N/A	No	Yes	No	N/A	No

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

## SECTION 12: Ecological information

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
n-Butyl acetate	No	No	No	No	No	No	No
2-Methoxy-1-methylethyl acetate	No	No	No	No	No	No	No
Xylene	No	No	No	No	No	No	No
Ethyl 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-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl) propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl) propionyloxypoly(oxyethylene)	No	No	No	No	No	No	No
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
propylidynetrimethanol	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** : Avoid release to the environment. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Dispose of contents and container in accordance with all local, regional, national and international regulations.

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

**European waste catalogue (EWC)** : 08.01.11

#### Packaging

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

## SECTION 13: Disposal considerations

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

## SECTION 14: Transport information

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

### Additional information

ADR/RID

: **Tunnel code** (D/E)

ADN

: The product is only regulated as an environmentally hazardous substance when transported in tank vessels.

**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]
OWOFINE 4364-20	≥90	3

**Labelling**

:

**Synthetic polymer microparticles - Designation 78**

## SECTION 15: Regulatory information

**Generic identity of polymer(s)** : 2902 - Polymers of propylene or of other olefins., 3909 - Amino-resins, phenolic resins and polyurethanes.

**Total percentage of synthetic polymer microparticles** : 7.9%

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

### Other EU regulations

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

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

**Explosive precursors** : Not applicable.

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

Not listed.

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

Not listed.

### Persistent Organic Pollutants

Not listed.

### Seveso Directive

This product is controlled under the Seveso Directive.

#### Danger criteria

Category

P5c

### National regulations

#### Austria

**VbF class** : Category 3

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

#### Belgium

#### Czech Republic

**Storage code** : 1

#### Denmark

**Fire class** : 1-1

### Executive Order No. 1795/2015

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

**MAL-code** : 3-5

**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:

## SECTION 15: Regulatory information

respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.

**MAL-code:** 3-5

**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.

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. 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.

- 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.

- Restrictions on use** : Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At Work.
- List of undesirable substances** : Not listed
- Carcinogenic waste** : Waste containers must be labeled: Contains a substance or substances regulated by Danish working environment legislation on cancer risks.

[Finland](#)

[France](#)

## SECTION 15: Regulatory information

**Social Security Code, Articles L 461-1 to L 461-7** :  Butyl acetate RG 84  
2-Methoxy-1-methylethyl acetate RG 84  
Xylene RG 4bis, RG 84  
Ethyl acetate RG 84  
Ethylbenzene RG 84

**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	%
<del>5</del> .2.1	Total dust	29.4
5.2.5	Organic substances	67.4
5.2.5 [I]	Organic substances	55.1

### 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
<input checked="" type="checkbox"/> Xyleen	-	-	-	Development 2	-

**Water Discharge Policy (ABM)** :  (3) Hazardous for aquatic organisms, may have long-term hazardous effects in aquatic environment. Decontamination effort: A

### Norway

### Sweden

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

### Switzerland

**VOC content** :  VOC (w/w): 53%

### 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 Skin Sens. 1, H317 STOT SE 3, H336 Aquatic Chronic 3, H412	On basis of test data Calculation method Calculation method 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.
H361f	Suspected of damaging fertility.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
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
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
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** : 27/01/2026

**Date of issue/Date of revision** : 27/01/2026 **Date of previous issue** : 13/02/2024

**Version** : 1.01 44/46

✔ WOFINE 4364-20 - All variants

**Label No** : 40005

## SECTION 16: Other information

**Date of previous issue** : 13/02/2024

**Version** : 1.01

OWOFINE 4364-20

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.

