## SAFETY DATA SHEET



OW COMBI 2315-15 - All variants

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

#### 1.1 Product identifier

Product name : OW COMBI 2315-15 - 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

: Prod-safe@teknos.com

responsible for this SDS

**National contact** 

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

#### 1.4 Emergency telephone number

**National advisory body/Poison Centre** 

Telephone number : In an emergency, call 112

## SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Product definition**: Mixture

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

Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Dam. 1, H318 Repr. 2, H361d STOT SE 3, H336

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

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

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

#### 2.2 Label elements

Hazard pictograms :









Signal word : Danger

**Hazard statements** : H225 - Highly flammable liquid and vapour.

H315 - Causes skin irritation.

H318 - Causes serious eye damage. H336 - May cause drowsiness or dizziness.

H361d - Suspected of damaging the unborn child.

**Precautionary statements** 

**Prevention**: P280 - Wear protective gloves, protective clothing, eye protection, face protection,

or hearing protection.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

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sources. No smoking.

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## SECTION 2: Hazards identification

Response

: P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor.

**Storage** 

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

: P501 - Dispose of contents and container in accordance with all local, regional, **Disposal** 

national and international regulations.

**Hazardous ingredients** 

Supplemental label

elements

: Contains: n-Butyl acetate; Toluene and iso-butanol

Warning! Hazardous respirable droplets may be formed when sprayed. Do not

breathe spray or mist.

**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	Туре
<b>ଜ</b> -Butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1] [2]
acetone	REACH #: 01-2119471330-49 EC: 200-662-2 CAS: 67-64-1 Index: 606-001-00-8	≥10 - <25	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	EUH066: C ≥ 25%	[1] [2]
Toluene	REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	<10	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304	-	[1] [2]
Xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	<10	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	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/	[1] [2]
Ethyl acetate	REACH #: 01-2119475103-46 EC: 205-500-4	≤10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	-	[1] [2]

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SECTION 3: Composition/information on ingredients					
	CAS: 141-78-6 Index: 607-022-00-5		EUH066		
iso-butanol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≤8.3	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1]
Propan-2-ol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≤5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	-	[1]
Ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤3	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) (oral, inhalation) Asp. Tox. 1, H304	ATE [Inhalation (vapours)] = 11 mg/	[1] [2]
1-Ethoxy-2-propanol	REACH #: 01-2119462792-32 EC: 216-374-5 CAS: 1569-02-4 Index: 603-177-00-8	≤3	Flam. Liq. 3, H226 Eye Irrit. 2, H319 STOT SE 3, H336	-	[1]
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≤3	Carc. 2, H351 (inhalation)	-	[1] [*]
			See Section 16 for the full text of the H statements declared above.		

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
- [\*] The classification as a carcinogen by inhalation applies only to mixtures placed on the market in powder form containing 1% or more of titanium dioxide particles with aerodynamic diameter ≤ 10 µm not bound within a matrix.

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

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

### 4.1 Description of first aid measures

**Eye contact** 

: Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.

Inhalation

: Get medical attention immediately. Call a poison center or physician. 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. 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.

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

#### Skin contact

Eet medical attention immediately. Call a poison center or physician. Wash contaminated skin with 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. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

#### Ingestion

Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. 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. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### **Protection of first-aiders**

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:

> watering redness

Inhalation : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness reduced foetal weight increase in foetal deaths skeletal malformations

**Skin contact** : Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations

Ingestion : Adverse symptoms may include the following:

> stomach pains reduced foetal weight increase in foetal deaths skeletal malformations

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

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments** : No specific treatment.

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## SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media

: Use dry chemical, CO2, water spray (fog) or foam.

**Unsuitable extinguishing** 

media

: Do not use water jet.

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

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

**Hazardous combustion** products

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide nitrogen oxides metal oxide/oxides

#### 5.3 Advice for firefighters

**Special protective actions** for fire-fighters

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

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

## SECTION 6: Accidental release measures

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

For non-emergency personnel

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

For emergency responders:

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

6.2 Environmental precautions

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

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

**Small spill** 

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

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.

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## SECTION 6: Accidental release measures

### 6.4 Reference to other sections

: See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

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

#### 7.1 Precautions for safe handling

#### **Protective measures**

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

## Advice on general occupational hygiene

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

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

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

#### **Seveso Directive - Reporting thresholds**

#### **Danger criteria**

	Notification and MAPP threshold	Safety report threshold
<b>P</b> 5c	5000 tonnes	50000 tonnes

#### 7.3 Specific end use(s)

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

## 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

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Product/ingredient na	me Exposure limit values
P-Butyl acetate	Regulation on Limit Values - MAC (Austria, 12/2024) [Butylacetat alle Isomeren außer tert-Butylacet] CEIL: 480 mg/m³. CEIL: 100 ppm. TWA 8 hours: 241 mg/m³.
acetone	TWA 8 hours: 50 ppm.  Regulation on Limit Values - MAC (Austria, 12/2024) TWA 8 hours: 500 ppm.
	TWA 8 hours: 300 ppm.  TWA 8 hours: 1200 mg/m³.  PEAK 15 minutes: 2000 ppm 4 times per shift.  PEAK 15 minutes: 4800 mg/m³ 4 times per shift.
Toluene	Regulation on Limit Values - MAC (Austria, 12/2024) d. Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 190 mg/m³. PEAK 15 minutes: 100 ppm 4 times per shift. PEAK 15 minutes: 380 mg/m³ 4 times per shift.
Xylene	Regulation on Limit Values - MAC (Austria, 12/2024) [Xylol (alle Isomeren, rein)] PEAK 15 minutes: 442 mg/m³ 4 times per shift. TWA 8 hours: 50 ppm. PEAK 15 minutes: 100 ppm 4 times per shift. TWA 8 hours: 221 mg/m³.
Ethyl acetate	Regulation on Limit Values - MAC (Austria, 12/2024) TWA 8 hours: 200 ppm. TWA 8 hours: 734 mg/m³. PEAK 15 minutes: 1468 mg/m³ 4 times per shift. PEAK 15 minutes: 400 ppm 4 times per shift.
iso-butanol	Regulation on Limit Values - MAC (Austria, 12/2024) [Butanol (alle Isomeren außer 2-Methyl-2-propanol)]  PEAK 15 minutes: 200 ppm 4 times per shift.  TWA 8 hours: 150 mg/m³.  TWA 8 hours: 50 ppm.  PEAK 15 minutes: 600 mg/m³ 4 times per shift.
Propan-2-ol	Regulation on Limit Values - MAC (Austria, 12/2024) TWA 8 hours: 200 ppm. TWA 8 hours: 500 mg/m³. PEAK 15 minutes: 800 ppm 4 times per shift. PEAK 15 minutes: 2000 mg/m³ 4 times per shift.
Ethylbenzene	Regulation on Limit Values - MAC (Austria, 12/2024) Absorbed through skin.  TWA 8 hours: 100 ppm.  TWA 8 hours: 440 mg/m³.  CEIL 5 minutes: 200 ppm 8 times per shift.  CEIL 5 minutes: 880 mg/m³ 8 times per shift.
1-Ethoxy-2-propanol	Regulation on Limit Values - MAC (Austria, 12/2024) STEL 15 minutes: 880 mg/m³. STEL 15 minutes: 200 ppm. TWA 8 hours: 220 mg/m³. TWA 8 hours: 50 ppm.
-Butyl acetate	Limit values (Belgium, 12/2023) [butylacetaat] STEL 15 minutes: 712 mg/m³. STEL 15 minutes: 150 ppm. TWA 8 hours: 238 mg/m³. TWA 8 hours: 50 ppm.
acetone	Limit values (Belgium, 12/2023)  TWA 8 hours: 246 ppm.  TWA 8 hours: 594 mg/m³.  STEL 15 minutes: 492 ppm.  STEL 15 minutes: 1187 mg/m³.
Toluene	Limit values (Belgium, 12/2023) Absorbed through skin.

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TWA 8 hours: 20 ppm.
TWA 8 hours: 77 mg/m³.
STEL 15 minutes: 100 ppm.
STEL 15 minutes: 384 mg/m³.

Xylene | Limit values (Belgium, 12/2023) [Xyleen] Absorbed through skin.

TWA 8 hours: 50 ppm.
TWA 8 hours: 221 mg/m³.
STEL 15 minutes: 100 ppm.
STEL 15 minutes: 442 mg/m³.

Ethyl acetate Limit values (Belgium, 12/2023)

TWA 8 hours: 200 ppm.
TWA 8 hours: 734 mg/m³.
STEL 15 minutes: 1468 mg/m³.
STEL 15 minutes: 400 ppm.

iso-butanol Limit values (Belgium, 12/2023)

TWA 8 hours: 50 ppm. TWA 8 hours: 154 mg/m³. Limit values (Belgium, 12/2023)

TWA 8 hours: 200 ppm. TWA 8 hours: 500 mg/m³. STEL 15 minutes: 400 ppm. STEL 15 minutes: 1000 mg/m³.

Ethylbenzene | Limit values (Belgium, 12/2023) Absorbed through skin.

TWA 8 hours: 20 ppm. TWA 8 hours: 87 mg/m³. STEL 15 minutes: 125 ppm. STEL 15 minutes: 551 mg/m³.

**Ministry of Labour and Social Policy and the Ministry of** 

Health - Ordinance No 13/2003. (Bulgaria, 4/2024)

Limit value 8 hours: 241 mg/m³. Limit value 15 minutes: 723 mg/m³. Limit value 15 minutes: 150 ppm. Limit value 8 hours: 50 ppm.

acetone Ministry of Labour and Social Policy and the Ministry of

Health - Ordinance No 13/2003. (Bulgaria, 4/2024)

Limit value 8 hours: 600 mg/m³. Limit value 15 minutes: 1400 mg/m³.

Toluene Ministry of Labour and Social Policy and the Ministry of

Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Absorbed

through skin.

Limit value 15 minutes: 384 mg/m³. Limit value 8 hours: 192 mg/m³. Limit value 15 minutes: 100 ppm. Limit value 8 hours: 50 ppm.

Xylene Ministry of Labour and Social Policy and the Ministry of

Health - Ordinance No 13/2003. (Bulgaria, 4/2024) [Xylene]

Absorbed through skin.

Limit value 8 hours: 221 mg/m³. Limit value 15 minutes: 442 mg/m³. Limit value 15 minutes: 100 ppm. Limit value 8 hours: 50 ppm.

Ethyl acetate Ministry of Labour and Social Policy and the Ministry of

Health - Ordinance No 13/2003. (Bulgaria, 4/2024)

Limit value 8 hours: 734 mg/m³. Limit value 15 minutes: 400 ppm. Limit value 15 minutes: 1468 mg/m³. Limit value 8 hours: 200 ppm.

Propan-2-ol Ministry of Labour and Social Policy and the Ministry of

Health - Ordinance No 13/2003. (Bulgaria, 4/2024)

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Limit value 8 hours: 980 mg/m³. Limit value 15 minutes: 1225 mg/m³.

Ethylbenzene Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Absorbed

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Limit value 8 hours: 435 mg/m<sup>3</sup>. Limit value 15 minutes: 545 mg/m<sup>3</sup>.

n-Butyl acetate

Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023)

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.

Ordinance on the protection of workers from exposure to acetone hazardous chemicals at work, exposure limit values (Annex I)

(Croatia, 12/2023)

ELV 8 hours: 1210 mg/m<sup>3</sup>. ELV 8 hours: 500 ppm.

Toluene Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I)

(Croatia, 12/2023) Absorbed through skin.

STELV 15 minutes: 384 mg/m<sup>3</sup>. STELV 15 minutes: 100 ppm. ELV 8 hours: 192 mg/m3. ELV 8 hours: 50 ppm.

**Xylene** Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I)

(Croatia, 12/2023) [ksilen] Absorbed through skin.

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.

Ethyl acetate Ordinance on the protection of workers from exposure to

hazardous chemicals at work, exposure limit values (Annex I)

(Croatia, 12/2023)

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>.

Ordinance on the protection of workers from exposure to

hazardous chemicals at work, exposure limit values (Annex I)

(Croatia, 12/2023) Absorbed through skin.

STELV 15 minutes: 231 mg/m3. STELV 15 minutes: 75 ppm. ELV 8 hours: 154 mg/m<sup>3</sup>. ELV 8 hours: 50 ppm.

Ordinance on the protection of workers from exposure to Propan-2-ol hazardous chemicals at work, exposure limit values (Annex I)

(Croatia, 12/2023)

STELV 15 minutes: 1250 mg/m<sup>3</sup>. STELV 15 minutes: 500 ppm. ELV 8 hours: 999 mg/m<sup>3</sup>. ELV 8 hours: 400 ppm.

Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I)

(Croatia, 12/2023) Absorbed through skin.

STELV 15 minutes: 884 mg/m<sup>3</sup>. STELV 15 minutes: 200 ppm. ELV 8 hours: 442 mg/m<sup>3</sup>. ELV 8 hours: 100 ppm.

iso-butanol

Ethylbenzene

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n-Butyl acetate Department of labour inspection (Cyprus, 7/2021) 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>. Department of labour inspection (Cyprus, 7/2021) Absorbed acetone through skin. TWA 8 hours: 500 ppm. TWA 8 hours: 1210 mg/m<sup>3</sup>. Department of labour inspection (Cyprus, 7/2021) Absorbed Toluene through skin. STEL 15 minutes: 100 ppm. STEL 15 minutes: 384 mg/m<sup>3</sup>. TWA 8 hours: 50 ppm. TWA 8 hours: 192 mg/m<sup>3</sup>. **Xylene** Department of labour inspection (Cyprus, 7/2021) [Ξυλένιο, μικτά ισομερή, καθαρά] 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/m3. Department of labour inspection (Cyprus, 7/2021) Ethyl acetate 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>. Ethylbenzene Department of labour inspection (Cyprus, 7/2021) Absorbed throuah skin. STEL 15 minutes: 884 mg/m<sup>3</sup>. TWA 8 hours: 100 ppm. TWA 8 hours: 442 mg/m<sup>3</sup>. STEL 15 minutes: 200 ppm. 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. acetone Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) TWA 8 hours: 800 mg/m<sup>3</sup>. STEL 15 minutes: 1500 mg/m<sup>3</sup>. STEL 15 minutes: 621.4 ppm. TWA 8 hours: 331.4 ppm. Toluene Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) Absorbed through skin. TWA 8 hours: 192 mg/m<sup>3</sup>. TWA 8 hours: 50 ppm. STEL 15 minutes: 384 mg/m<sup>3</sup>. STEL 15 minutes: 100 ppm. **Xylene** 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. Government regulation of Czech Republic PEL/NPK-P (Czech Ethyl acetate 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. iso-butanol Government regulation of Czech Republic PEL/NPK-P (Czech

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Republic, 12/2023) [butanol]

TWA 8 hours: 300 mg/m³. TWA 8 hours: 97 ppm.

STEL 15 minutes: 600 mg/m<sup>3</sup>. STEL 15 minutes: 194 ppm.

Propan-2-ol

Government regulation of Czech Republic PEL/NPK-P (Czech

Republic, 12/2023)

TWA 8 hours: 500 mg/m³. TWA 8 hours: 200 ppm. STEL 15 minutes: 1000 mg/m³. STEL 15 minutes: 400 ppm.

Ethylbenzene

Government regulation of Czech Republic PEL/NPK-P (Czech

Republic, 12/2023) Absorbed through skin.

TWA 8 hours: 200 mg/m³. TWA 8 hours: 45.33 ppm. STEL 15 minutes: 500 mg/m³. STEL 15 minutes: 113.32 ppm.

1-Ethoxy-2-propanol

Government regulation of Czech Republic PEL/NPK-P (Czech

Republic, 12/2023)

STEL 15 minutes: 550 mg/m³. TWA 8 hours: 270 mg/m³. TWA 8 hours: 62.4 ppm. STEL 15 minutes: 127.1 ppm.

n-Butyl acetate

Working Environment Authority (Denmark, 12/2024)

[butylacetat, alle isomerer] TWA 8 hours: 50 ppm.

TWA 8 hours: 241 mg/m³. STEL 15 minutes: 723 mg/m³. STEL 15 minutes: 150 ppm.

acetone

Working Environment Authority (Denmark, 12/2024)

TWA 8 hours: 250 ppm. TWA 8 hours: 600 mg/m³. STEL 15 minutes: 1200 mg/m³. STEL 15 minutes: 500 ppm.

Toluene

Working Environment Authority (Denmark, 12/2024) Absorbed

through skin.

TWA 8 hours: 25 ppm. TWA 8 hours: 94 mg/m³. STEL 15 minutes: 384 mg/m³. 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/m³. STEL 15 minutes: 442 mg/m³. STEL 15 minutes: 100 ppm.

Ethyl acetate

Working Environment Authority (Denmark, 12/2024)

TWA 8 hours: 150 ppm. TWA 8 hours: 540 mg/m³. STEL 15 minutes: 1468 mg/m³. STEL 15 minutes: 400 ppm.

iso-butanol

Working Environment Authority (Denmark, 12/2024) [butanol,

alle isomere] Absorbed through skin.

CEIL: 50 ppm. CEIL: 150 mg/m<sup>3</sup>.

Propan-2-ol

Working Environment Authority (Denmark, 12/2024)

TWA 8 hours: 200 ppm. TWA 8 hours: 490 mg/m³. STEL 15 minutes: 980 mg/m³. STEL 15 minutes: 400 ppm.

Ethylbenzene

Working Environment Authority (Denmark, 12/2024) K.

Absorbed through skin. TWA 8 hours: 50 ppm.

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TWA 8 hours: 217 mg/m<sup>3</sup>. STEL 15 minutes: 434 mg/m<sup>3</sup>. STEL 15 minutes: 100 ppm. n-Butyl acetate Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m<sup>3</sup>. TWA 8 hours: 50 ppm. TWA 8 hours: 241 mg/m<sup>3</sup>. Occupational exposure limits, Regulation No. 293 (Estonia, acetone 4/2024) TWA 8 hours: 1210 mg/m<sup>3</sup>. TWA 8 hours: 500 ppm. Toluene Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) Absorbed through skin. TWA 8 hours: 192 mg/m<sup>3</sup>. TWA 8 hours: 50 ppm. STEL 15 minutes: 384 mg/m<sup>3</sup>. STEL 15 minutes: 100 ppm. **Xylene** Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) [ksüleen] Absorbed through skin. TWA 8 hours: 50 ppm. STEL 15 minutes: 100 ppm. STEL 15 minutes: 450 mg/m<sup>3</sup>. TWA 8 hours: 200 mg/m<sup>3</sup>. Occupational exposure limits, Regulation No. 293 (Estonia, Ethyl acetate 4/2024) TWA 8 hours: 500 mg/m<sup>3</sup>. TWA 8 hours: 150 ppm. STEL 15 minutes: 1100 mg/m3. STEL 15 minutes: 300 ppm. iso-butanol Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) TWA 8 hours: 150 mg/m<sup>3</sup>. TWA 8 hours: 50 ppm. Propan-2-ol Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) TWA 8 hours: 350 mg/m<sup>3</sup>. TWA 8 hours: 150 ppm. STEL 15 minutes: 600 mg/m<sup>3</sup>. STEL 15 minutes: 250 ppm. Occupational exposure limits, Regulation No. 293 (Estonia, Ethylbenzene 4/2024) Absorbed through skin, Sensitiser. TWA 8 hours: 442 mg/m<sup>3</sup>. TWA 8 hours: 100 ppm. STEL 15 minutes: 884 mg/m<sup>3</sup>. STEL 15 minutes: 200 ppm. n-Butyl acetate EU OEL (Europe, 1/2022) STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m3. TWA 8 hours: 241 mg/m<sup>3</sup>. TWA 8 hours: 50 ppm. acetone EU OEL (Europe, 1/2022) TWA 8 hours: 500 ppm. TWA 8 hours: 1210 mg/m<sup>3</sup>. Toluene EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 192 mg/m<sup>3</sup>. TWA 8 hours: 50 ppm. STEL 15 minutes: 384 mg/m<sup>3</sup>. STEL 15 minutes: 100 ppm. **Xylene** EU OEL (Europe, 1/2022) [xylene, mixed isomers] Absorbed through skin. TWA 8 hours: 50 ppm.

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TWA 8 hours: 221 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m³.

Ethyl acetate EU OEL (Europe, 1/2022)

STEL 15 minutes: 400 ppm. STEL 15 minutes: 1468 mg/m³. TWA 8 hours: 200 ppm. TWA 8 hours: 734 mg/m³.

Ethylbenzene EU OEL (Europe, 1/2022) Absorbed through skin.

TWA 8 hours: 100 ppm. TWA 8 hours: 442 mg/m³. STEL 15 minutes: 200 ppm. STEL 15 minutes: 884 mg/m³.

**№**-Butyl acetate Institute of Occupational Health, Ministry of Social Affairs

(Finland, 10/2021)
TWA 8 hours: 150 ppm.
TWA 8 hours: 720 mg/m³.
STEL 15 minutes: 200 ppm.
STEL 15 minutes: 960 mg/m³.

acetone Institute of Occupational Health, Ministry of Social Affairs

(Finland, 10/2021)
TWA 8 hours: 500 ppm.
TWA 8 hours: 1200 mg/m³.
STEL 15 minutes: 630 ppm.
STEL 15 minutes: 1500 mg/m³.

Toluene Institute of Occupational Health, Ministry of Social Affairs

(Finland, 10/2021) Absorbed through skin , Ototoxicant.

TWA 8 hours: 25 ppm. TWA 8 hours: 81 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 380 mg/m³.

Xylene Institute of Occupational Health, Ministry of Social Affairs

(Finland, 10/2021) [Ksyleeni] Absorbed through skin.

STEL 15 minutes: 440 mg/m³. TWA 8 hours: 220 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 100 ppm.

Ethyl acetate Institute of Occupational Health, Ministry of Social Affairs

(Finland, 10/2021) TWA 8 hours: 200 ppm.

TWA 8 hours: 730 mg/m³. STEL 15 minutes: 400 ppm. STEL 15 minutes: 1470 mg/m³.

iso-butanol Institute of Occupational Health, Ministry of Social Affairs

(Finland, 10/2021) [Butanoli] Absorbed through skin.

TWA 8 hours: 50 ppm. TWA 8 hours: 150 mg/m³. STEL 15 minutes: 75 ppm. STEL 15 minutes: 230 mg/m³.

Propan-2-ol Institute of Occupational Health, Ministry of Social Affairs

(Finland, 10/2021)

TWA 8 hours: 200 ppm. TWA 8 hours: 500 mg/m³. STEL 15 minutes: 250 ppm. STEL 15 minutes: 620 mg/m³.

Ethylbenzene Institute of Occupational Health, Ministry of Social Affairs

(Finland, 10/2021) Absorbed through skin.

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TWA 8 hours: 50 ppm. TWA 8 hours: 220 mg/m³. STEL 15 minutes: 200 ppm. STEL 15 minutes: 880 mg/m³.

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**n**-Butyl acetate Ministry of Labor (France, 6/2024) TWA 8 hours: 50 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA 8 hours: 241 mg/m³. 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/m³. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) acetone Ministry of Labor (France, 6/2024) TWA 8 hours: 500 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA 8 hours: 1210 mg/m<sup>3</sup>. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 2420 mg/m³. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 1000 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) Toluene Ministry of Labor (France, 6/2024) Repr 2. Absorbed through skin, Ototoxicant. TWA 8 hours: 20 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA 8 hours: 76.8 mg/m<sup>3</sup>. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 100 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 384 mg/m<sup>3</sup>. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) **Xylene** Ministry of Labor (France, 6/2024) [xylènes, isomères mixtes, purs] 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) Ethyl acetate Ministry of Labor (France, 6/2024) TWA 8 hours: 200 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA 8 hours: 734 mg/m³. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 1468 mg/m³. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 400 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) iso-butanol Ministry of Labor (France, 6/2024) TWA 8 hours: 50 ppm. Notes: Permissible limit values (circulars) TWA 8 hours: 150 mg/m<sup>3</sup>. Notes: Permissible limit values (circulars) Ministry of Labor (France, 6/2024) Propan-2-ol STEL 15 minutes: 400 ppm. Notes: Permissible limit values STEL 15 minutes: 980 mg/m³. Notes: Permissible limit values (circulars) Ethylbenzene Ministry of Labor (France, 6/2024) Absorbed through skin. TWA 8 hours: 20 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA 8 hours: 88.4 mg/m<sup>3</sup>. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 442 mg/m³. Notes: Binding regulatory limit

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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) n-Butyl acetate TRGS 900 OEL (Germany, 6/2024) TWA 8 hours: 300 mg/m<sup>3</sup>. TWA 8 hours: 62 ppm. PEAK 15 minutes: 600 mg/m<sup>3</sup>. PEAK 15 minutes: 124 ppm. DFG MAC-values list (Germany, 7/2024) Develop C. TWA 8 hours: 100 ppm. PEAK 15 minutes: 200 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 480 mg/m<sup>3</sup>. PEAK 15 minutes: 960 mg/m³ 4 times per shift [Interval: 1 hour]. TRGS 900 OEL (Germany, 6/2024) acetone TWA 8 hours: 1200 mg/m<sup>3</sup>. PEAK 15 minutes: 2400 mg/m<sup>3</sup>. TWA 8 hours: 500 ppm. PEAK 15 minutes: 1000 ppm. DFG MAC-values list (Germany, 7/2024) Develop B. TWA 8 hours: 500 ppm. PEAK 15 minutes: 1000 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 1200 mg/m<sup>3</sup>. PEAK 15 minutes: 2400 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour]. Toluene TRGS 900 OEL (Germany, 6/2024) Absorbed through skin. TWA 8 hours: 190 mg/m<sup>3</sup>. PEAK 15 minutes: 380 mg/m<sup>3</sup>. TWA 8 hours: 50 ppm. PEAK 15 minutes: 100 ppm. DFG MAC-values list (Germany, 7/2024) Develop C. Absorbed through skin. TWA 8 hours: 50 ppm. PEAK 15 minutes: 100 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 190 mg/m<sup>3</sup>. PEAK 15 minutes: 380 mg/m³ 4 times per shift [Interval: 1 hour]. **Xylene** TRGS 900 OEL (Germany, 6/2024) [Xylol] Absorbed through skin. TWA 8 hours: 220 mg/m<sup>3</sup>. PEAK 15 minutes: 440 mg/m<sup>3</sup>. TWA 8 hours: 50 ppm. PEAK 15 minutes: 100 ppm. DFG MAC-values list (Germany, 7/2024) [Xylene] Develop D. Absorbed through skin. TWA 8 hours: 50 ppm. PEAK 15 minutes: 100 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 220 mg/m3. PEAK 15 minutes: 440 mg/m³ 4 times per shift [Interval: 1 hour]. TRGS 900 OEL (Germany, 6/2024) Ethyl acetate TWA 8 hours: 730 mg/m<sup>3</sup>. PEAK 15 minutes: 1460 mg/m<sup>3</sup>. TWA 8 hours: 200 ppm. PEAK 15 minutes: 400 ppm. DFG MAC-values list (Germany, 7/2024) Develop C. TWA 8 hours: 200 ppm. PEAK 15 minutes: 400 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 750 mg/m<sup>3</sup>. PEAK 15 minutes: 1500 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour]. TRGS 900 OEL (Germany, 6/2024) iso-butanol

> TWA 8 hours: 310 mg/m<sup>3</sup>. PEAK 15 minutes: 310 mg/m<sup>3</sup>. TWA 8 hours: 100 ppm. PEAK 15 minutes: 100 ppm.

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

TWA 8 hours: 100 ppm.

PEAK 15 minutes: 100 ppm 4 times per shift [Interval: 1 hour].

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TWA 8 hours: 310 mg/m<sup>3</sup>.

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PEAK 15 minutes: 310 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour]. Propan-2-ol TRGS 900 OEL (Germany, 6/2024) TWA 8 hours: 500 mg/m<sup>3</sup>. PEAK 15 minutes: 1000 mg/m3. TWA 8 hours: 200 ppm. PEAK 15 minutes: 400 ppm. DFG MAC-values list (Germany, 7/2024) Develop C. TWA 8 hours: 200 ppm. PEAK 15 minutes: 400 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 500 mg/m<sup>3</sup>. PEAK 15 minutes: 1000 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour]. Ethylbenzene TRGS 900 OEL (Germany, 6/2024) Absorbed through skin. TWA 8 hours: 88 mg/m<sup>3</sup>. PEAK 15 minutes: 176 mg/m<sup>3</sup>. TWA 8 hours: 20 ppm. PEAK 15 minutes: 40 ppm. DFG MAC-values list (Germany, 7/2024) Carc 4, Develop C. Absorbed through skin. PEAK 15 minutes: 40 ppm 4 times per shift [Interval: 1 hour]. PEAK 15 minutes: 176 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour]. TWA 8 hours: 88 mg/m<sup>3</sup>. TWA 8 hours: 20 ppm. 1-Ethoxy-2-propanol TRGS 900 OEL (Germany, 6/2024) Absorbed through skin. TWA 8 hours: 86 mg/m<sup>3</sup>. PEAK 15 minutes: 172 mg/m<sup>3</sup>. TWA 8 hours: 20 ppm. PEAK 15 minutes: 40 ppm. DFG MAC-values list (Germany, 7/2024) Develop C. Absorbed through skin. TWA 8 hours: 86 mg/m<sup>3</sup>. PEAK 15 minutes: 172 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour]. TWA 8 hours: 20 ppm. PEAK 15 minutes: 40 ppm 4 times per shift [Interval: 1 hour]. n-Butyl acetate Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024) TWA 8 hours: 50 ppm. TWA 8 hours: 241 mg/m<sup>3</sup>. STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m<sup>3</sup>. Presidential Decree 307/1986: Occupational exposure limit acetone values (Greece, 8/2024) TWA 8 hours: 1780 mg/m<sup>3</sup>. STEL 15 minutes: 3560 mg/m<sup>3</sup>. Toluene Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 192 mg/m<sup>3</sup>. STEL 15 minutes: 100 ppm. STEL 15 minutes: 384 mg/m<sup>3</sup>. **Xylene** Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024) [ξυλόλια (όλα τα ισομερή)] Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 435 mg/m<sup>3</sup>. STEL 15 minutes: 150 ppm. STEL 15 minutes: 650 mg/m<sup>3</sup>. Presidential Decree 307/1986: Occupational exposure limit Ethyl acetate values (Greece, 8/2024) 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. iso-butanol Presidential Decree 307/1986: Occupational exposure limit

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values (Greece, 8/2024) TWA 8 hours: 100 ppm. TWA 8 hours: 300 mg/m<sup>3</sup>. STEL 15 minutes: 100 ppm. STEL 15 minutes: 300 mg/m<sup>3</sup>. Presidential Decree 307/1986: Occupational exposure limit Propan-2-ol values (Greece, 8/2024) TWA 8 hours: 400 ppm. TWA 8 hours: 980 mg/m<sup>3</sup>. STEL 15 minutes: 500 ppm. STEL 15 minutes: 1225 mg/m3. Ethylbenzene Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024) TWA 8 hours: 100 ppm. TWA 8 hours: 435 mg/m<sup>3</sup>. STEL 15 minutes: 125 ppm. STEL 15 minutes: 545 mg/m<sup>3</sup>. n-Butyl acetate 5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) Sensitiser. TWA 8 hours: 241 mg/m<sup>3</sup>. PEAK 15 minutes: 723 mg/m<sup>3</sup>. PEAK 15 minutes: 150 ppm.

TWA 8 hours: 50 ppm. acetone 5/2020. (II. 6.) ITM Decree (Hungary, 1/2025)

> TWA 8 hours: 1210 mg/m<sup>3</sup>. TWA 8 hours: 500 ppm.

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

TWA 8 hours: 192 mg/m<sup>3</sup>. PEAK 15 minutes: 384 mg/m<sup>3</sup>. PEAK 15 minutes: 100 ppm. TWA 8 hours: 50 ppm.

**Xylene** 5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) [xilol izomerek

> keveréke] Absorbed through skin. TWA 8 hours: 221 mg/m<sup>3</sup>. PEAK 15 minutes: 442 mg/m<sup>3</sup>. PEAK 15 minutes: 100 ppm.

TWA 8 hours: 50 ppm.

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

> 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.

5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) Absorbed through Propan-2-ol

TWA 8 hours: 500 mg/m<sup>3</sup>. PEAK 15 minutes: 1000 mg/m<sup>3</sup>. PEAK 15 minutes: 400 ppm. TWA 8 hours: 200 ppm.

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

skin.

TWA 8 hours: 442 mg/m<sup>3</sup>. PEAK 15 minutes: 884 mg/m<sup>3</sup>. PEAK 15 minutes: 200 ppm. TWA 8 hours: 100 ppm.

n-Butyl acetate Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024)

> [bútýlasetat, allir ísómerar] TWA 8 hours: 241 mg/m<sup>3</sup>. TWA 8 hours: 50 ppm. STEL 15 minutes: 723 mg/m<sup>3</sup>. STEL 15 minutes: 150 ppm.

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

TWA 8 hours: 600 mg/m<sup>3</sup>.

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TWA 8 hours: 250 ppm. Toluene

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

Absorbed through skin.

STEL 15 minutes: 188 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm. TWA 8 hours: 94 mg/m<sup>3</sup>. TWA 8 hours: 25 ppm.

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

[Xýlen, allir ísómerar] Absorbed through skin.

STEL 15 minutes: 442 mg/m<sup>3</sup>. STEL 15 minutes: 100 ppm. TWA 8 hours: 109 mg/m<sup>3</sup>. TWA 8 hours: 25 ppm.

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

> TWA 8 hours: 540 ma/m<sup>3</sup>. TWA 8 hours: 150 ppm.

iso-butanol Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024)

[Bútanól, allir ísomerar nema n-bútanól] Absorbed through skin.

STEL 15 minutes: 150 mg/m<sup>3</sup>. STEL 15 minutes: 50 ppm.

Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024) Propan-2-ol

> Absorbed through skin. TWA 8 hours: 490 mg/m<sup>3</sup>. TWA 8 hours: 200 ppm.

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

Absorbed through skin.

STEL 15 minutes: 884 mg/m<sup>3</sup>. STEL 15 minutes: 200 ppm. TWA 8 hours: 200 mg/m<sup>3</sup>. TWA 8 hours: 50 ppm.

NAOSH (Ireland, 4/2024) Notes: EU derived Occupational n-Butyl acetate

> 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>.

acetone NAOSH (Ireland, 4/2024) Notes: EU derived Occupational

> Exposure Limit Values OELV 8 hours: 500 ppm. OELV 8 hours: 1210 mg/m<sup>3</sup>.

NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: EU Toluene

derived Occupational Exposure Limit Values

OELV 8 hours: 50 ppm. OELV 8 hours: 192 mg/m<sup>3</sup>. OELV 15 minutes: 100 ppm. OELV 15 minutes: 384 mg/m<sup>3</sup>.

**Xylene** NAOSH (Ireland, 4/2024) [xylene] Absorbed through skin. Notes:

EU derived Occupational Exposure Limit Values

OELV 8 hours: 50 ppm. OELV 8 hours: 221 mg/m3. OELV 15 minutes: 100 ppm. OELV 15 minutes: 442 mg/m<sup>3</sup>.

Ethyl acetate NAOSH (Ireland, 4/2024) Notes: EU derived Occupational

> Exposure Limit Values OELV 8 hours: 200 ppm. OELV 15 minutes: 400 ppm. OELV 15 minutes: 1468 ma/m<sup>3</sup>. OELV 8 hours: 734 mg/m3.

iso-butanol NAOSH (Ireland, 4/2024) Notes: Advisory Occupational Exposure

> Limit Values (OELVs) OELV 8 hours: 150 ppm. OELV 8 hours: 700 mg/m<sup>3</sup>.

NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: Advisory Propan-2-ol

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Occupational Exposure Limit Values (OELVs)

OELV 8 hours: 200 ppm. OELV 15 minutes: 400 ppm.

Ethylbenzene NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: EU

derived Occupational Exposure Limit Values

OELV 8 hours: 100 ppm. OELV 8 hours: 442 mg/m³. OELV 15 minutes: 200 ppm. OELV 15 minutes: 884 mg/m³.

EButyl acetate

Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 9/2024)

Short Term 15 minutes: 150 ppm. Short Term 15 minutes: 723 mg/m³. Limit value 8 hours: 50 ppm. Limit value 8 hours: 241 mg/m³.

acetone Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 9/2024)

Limit value 8 hours: 500 ppm. Limit value 8 hours: 1210 mg/m³.

Toluene Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 9/2024)

Absorbed through skin.

Limit value 8 hours: 50 ppm.

Limit value 8 hours: 192 mg/m³.

Short Term 15 minutes: 100 ppm.

Short Term 15 minutes: 384 mg/m³.

Xylene Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 9/2024)

[xilene, isomeri misti, puro] Absorbed through skin.

Limit value 8 hours: 50 ppm. Limit value 8 hours: 221 mg/m³. Short Term 15 minutes: 100 ppm. Short Term 15 minutes: 442 mg/m³.

Ethyl acetate Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 9/2024)

Short Term 15 minutes: 400 ppm. Short Term 15 minutes: 1468 mg/m³. Limit value 8 hours: 200 ppm. Limit value 8 hours: 734 mg/m³.

Ethylbenzene Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 9/2024)

Absorbed through skin.

Limit value 8 hours: 100 ppm.

Limit value 8 hours: 442 mg/m³.

Short Term 15 minutes: 200 ppm.

Short Term 15 minutes: 884 mg/m³.

Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)

TWA 8 hours: 241 mg/m³. STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m³. TWA 8 hours: 50 ppm.

acetone Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)

TWA 8 hours: 1210 mg/m<sup>3</sup>. TWA 8 hours: 500 ppm.

Toluene Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)

Absorbed through skin.
TWA 8 hours: 50 mg/m³.
STEL 15 minutes: 150 mg/m³.
TWA 8 hours: 14 ppm.
STEL 15 minutes: 40 ppm.

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Xylene Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) [Ksilols] Absorbed through skin.

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TWA 8 hours: 221 mg/m³.
TWA 8 hours: 50 ppm.
STEL 15 minutes: 100 ppm.
STEL 15 minutes: 442 mg/m³.

Ethyl acetate | Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)

TWA 8 hours: 200 mg/m³. STEL 15 minutes: 400 ppm. STEL 15 minutes: 1468 mg/m³.

TWA 8 hours: 54 ppm.

iso-butanol Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)

[Butilspirti]

TWA 8 hours: 10 mg/m<sup>3</sup>.

Propan-2-ol Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)

TWA 8 hours: 350 mg/m<sup>3</sup>. STEL 15 minutes: 600 mg/m<sup>3</sup>.

Ethylbenzene Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)

Absorbed through skin.
TWA 8 hours: 442 mg/m³.
TWA 8 hours: 100 ppm.
STEL 15 minutes: 200 ppm.
STEL 15 minutes: 884 mg/m³.

**№**-Butyl acetate Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)

TWA 8 hours: 241 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 723 mg/m³. STEL 15 minutes: 150 ppm.

acetone Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)

TWA 8 hours: 1210 mg/m³. TWA 8 hours: 500 ppm. STEL 15 minutes: 2420 mg/m³. STEL 15 minutes: 1000 ppm.

Toluene Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) Repr.

Absorbed through skin.
TWA 8 hours: 192 mg/m³.
TWA 8 hours: 50 ppm.
STEL 15 minutes: 384 mg/m³.
STEL 15 minutes: 100 ppm.

Xylene Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)

[ksilenas, mišrūs izomerai, grynas] Absorbed through skin.

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STEL 15 minutes: 442 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 100 ppm. TWA 8 hours: 221 mg/m³.

Ethyl acetate Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)

TWA 8 hours: 500 mg/m³. TWA 8 hours: 150 ppm. CEIL: 1100 mg/m³. CEIL: 300 ppm.

iso-butanol Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)

Absorbed through skin. TWA 8 hours: 10 mg/m³.

Propan-2-ol Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)

TWA 8 hours: 350 mg/m³. TWA 8 hours: 150 ppm. STEL 15 minutes: 600 mg/m³. STEL 15 minutes: 250 ppm.

Ethylbenzene Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)

Absorbed through skin.
TWA 8 hours: 442 mg/m³.
TWA 8 hours: 100 ppm.
STEL 15 minutes: 884 mg/m³.
STEL 15 minutes: 200 ppm.

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n-Butyl acetate Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) 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>. Grand-Duchy Regulation 2016. Chemical agents. Annex I acetone (Luxembourg, 3/2021) TWA 8 hours: 500 ppm. TWA 8 hours: 1210 mg/m<sup>3</sup>. Toluene Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) Absorbed through skin. STEL 15 minutes: 100 ppm. STEL 15 minutes: 384 mg/m<sup>3</sup>. TWA 8 hours: 50 ppm. TWA 8 hours: 192 mg/m<sup>3</sup>. **Xylene** Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) [xylène Isomères mixtes, pures] 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>. Ethyl acetate Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) 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>. Ethylbenzene Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) 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>. n-Butyl acetate EU OEL (Europe, 1/2022) 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. acetone EU OEL (Europe, 1/2022) TWA 8 hours: 500 ppm. TWA 8 hours: 1210 mg/m<sup>3</sup>. EU OEL (Europe, 1/2022) Absorbed through skin. Toluene TWA 8 hours: 192 mg/m<sup>3</sup>. TWA 8 hours: 50 ppm. STEL 15 minutes: 384 mg/m<sup>3</sup>. STEL 15 minutes: 100 ppm. **Xylene** EU OEL (Europe, 1/2022) [xylene, mixed isomers] 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>. Ethyl acetate EU OEL (Europe, 1/2022) 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>. Ethylbenzene EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 442 mg/m<sup>3</sup>. STEL 15 minutes: 200 ppm.

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n-Butyl acetate

STEL 15 minutes: 884 mg/m³.

Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024)

TWA 8 hours: 241 mg/m³. STEL 15 minutes: 723 mg/m³. STEL 15 minutes: 150 ppm.

acetone Ministry of Social Affairs and Employment, Legal limit values

(Netherlands, 5/2024)

TWA 8 hours: 50 ppm.

STEL 15 minutes: 2420 mg/m³. TWA 8 hours: 1210 mg/m³. TWA 8 hours: 500 ppm. STEL 15 minutes: 1000 ppm.

Toluene Ministry of Social Affairs and Employment, Legal limit values

(Netherlands, 5/2024)
TWA 8 hours: 150 mg/m³.
STEL 15 minutes: 384 mg/m³.
STEL 15 minutes: 100 ppm.
TWA 8 hours: 39 ppm.

Xylene Ministry of Social Affairs and Employment, Legal limit values

(Netherlands, 5/2024) [xyleen, o-, m-, p-isomeren] Absorbed

through skin.

TWA 8 hours: 210 mg/m³. STEL 15 minutes: 442 mg/m³. STEL 15 minutes: 100 ppm. TWA 8 hours: 47.5 ppm.

Ethyl acetate Ministry of Social Affairs and Employment, Legal limit values

(Netherlands, 5/2024)

STEL 15 minutes: 1468 mg/m³. TWA 8 hours: 734 mg/m³. STEL 15 minutes: 400 ppm. TWA 8 hours: 200 ppm.

Ethylbenzene Ministry of Social Affairs and Employment, Legal limit values

(Netherlands, 5/2024) Absorbed through skin.

TWA 8 hours: 215 mg/m³. STEL 15 minutes: 430 mg/m³. STEL 15 minutes: 97.3 ppm. TWA 8 hours: 48.6 ppm.

FOR-2011-12-06-1358 (Norway, 5/2024)

STEL 15 minutes: 723 mg/m³. STEL 15 minutes: 150 ppm. TWA 8 hours: 241 mg/m³. TWA 8 hours: 50 ppm.

acetone | FOR-2011-12-06-1358 (Norway, 5/2024)

TWA 8 hours: 125 ppm. TWA 8 hours: 295 mg/m<sup>3</sup>.

Toluene FOR-2011-12-06-1358 (Norway, 5/2024) Absorbed through skin.

TWA 8 hours: 25 ppm. TWA 8 hours: 94 mg/m<sup>3</sup>.

Xylene FOR-2011-12-06-1358 (Norway, 5/2024) [xylen] Absorbed

through skin.

TWA 8 hours: 25 ppm. TWA 8 hours: 108 mg/m<sup>3</sup>.

Ethyl acetate FOR-2011-12-06-1358 (Norway, 5/2024)

TWA 8 hours: 200 ppm. TWA 8 hours: 734 mg/m³. STEL 15 minutes: 1468 mg/m³. STEL 15 minutes: 400 ppm.

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iso-butanol FOR-2011-12-06-1358 (Norway, 5/2024) Absorbed through skin.

CEIL: 75 mg/m³. CEIL: 25 ppm.

Propan-2-ol FOR-2011-12-06-1358 (Norway, 5/2024)

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TWA 8 hours: 100 ppm. TWA 8 hours: 245 mg/m<sup>3</sup>.

Ethylbenzene FOR-2011-12-06-1358 (Norway, 5/2024) Carc. Absorbed through

skin.

TWA 8 hours: 5 ppm. TWA 8 hours: 20 mg/m<sup>3</sup>.

n-Butyl acetate

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)

TWA 8 hours: 240 mg/m<sup>3</sup>. STEL 15 minutes: 720 mg/m<sup>3</sup>.

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)

TWA 8 hours: 600 mg/m<sup>3</sup>. STEL 15 minutes: 1800 mg/m<sup>3</sup>.

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) Absorbed through skin.

TWA 8 hours: 100 mg/m<sup>3</sup>. STEL 15 minutes: 200 mg/m<sup>3</sup>.

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-)] Absorbed through skin.

TWA 8 hours: 100 mg/m<sup>3</sup>. STEL 15 minutes: 200 mg/m<sup>3</sup>.

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,

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.

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) Absorbed through skin.

TWA 8 hours: 100 mg/m<sup>3</sup>. STEL 15 minutes: 200 mg/m<sup>3</sup>.

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) Absorbed through skin.

TWA 8 hours: 900 mg/m<sup>3</sup>. STEL 15 minutes: 1200 mg/m<sup>3</sup>.

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) Absorbed through skin.

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acetone

Toluene

**Xylene** 

Ethyl acetate

iso-butanol

Propan-2-ol

Ethylbenzene

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**7**-Butyl acetate

acetone

Toluene

**Xylene** 

Ethyl acetate

TWA 8 hours: 200 mg/m³. STEL 15 minutes: 400 mg/m³.

Portuguese Institute of Quality (Portugal, 11/2014)

TWA 8 hours: 150 ppm. STEL 15 minutes: 200 ppm.

Decree-Law 24/2012 - Occupational exposure limits for

chemical agents (Portugal, 6/2021)

STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m³. TWA 8 hours: 50 ppm. TWA 8 hours: 241 mg/m³.

Portuguese Institute of Quality (Portugal, 11/2014) A4.

TWA 8 hours: 500 ppm. STEL 15 minutes: 750 ppm.

Decree-Law 24/2012 - Occupational exposure limits for

chemical agents (Portugal, 6/2021)

TWA 8 hours: 500 ppm. TWA 8 hours: 1210 mg/m³.

Portuguese Institute of Quality (Portugal, 11/2014) A4.

TWA 8 hours: 20 ppm.

Decree-Law 24/2012 - Occupational exposure limits for chemical agents (Portugal, 6/2021) Absorbed through skin.

STEL 15 minutes: 100 ppm. STEL 15 minutes: 384 mg/m³. TWA 8 hours: 50 ppm. TWA 8 hours: 192 mg/m³.

Portuguese Institute of Quality (Portugal, 11/2014) [xileno

(isómeros o, m & p)] A4. TWA 8 hours: 100 ppm. STEL 15 minutes: 150 ppm.

Decree-Law 24/2012 - Occupational exposure limits for chemical agents (Portugal, 6/2021) [xilenos] Absorbed through

SKIN.

STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m³. TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m³.

Portuguese Institute of Quality (Portugal, 11/2014)

TWA 8 hours: 400 ppm.

Decree-Law 24/2012 - Occupational exposure limits for chemical agents (Portugal, 6/2021)

STEL 15 minutes: 400 ppm. STEL 15 minutes: 1468 mg/m³. TWA 8 hours: 200 ppm. TWA 8 hours: 734 mg/m³.

iso-butanol Portuguese Institute of Quality (Portugal, 11/2014)

TWA 8 hours: 50 ppm.

Propan-2-ol Portuguese Institute of Quality (Portugal, 11/2014) A4.

TWA 8 hours: 200 ppm. STEL 15 minutes: 400 ppm.

Ethylbenzene Portuguese Institute of Quality (Portugal, 11/2014) A3.

TWA 8 hours: 20 ppm.

Decree-Law 24/2012 - Occupational exposure limits for chemical agents (Portugal, 6/2021) Absorbed through skin.

STEL 15 minutes: 200 ppm. STEL 15 minutes: 884 mg/m³. TWA 8 hours: 100 ppm. TWA 8 hours: 442 mg/m³.

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**n**-Butyl acetate HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) 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. acetone HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) VLA 8 hours: 1210 mg/m3. VLA 8 hours: 500 ppm. HG 1218/2006, Annex 1, with subsequent modifications and Toluene additions (Romania, 3/2024) R2. Absorbed through skin. VLA 8 hours: 192 mg/m<sup>3</sup>. VLA 8 hours: 50 ppm. Short term 15 minutes: 384 mg/m<sup>3</sup>. Short term 15 minutes: 100 ppm. **Xylene** HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) [xilen] 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. HG 1218/2006, Annex 1, with subsequent modifications and Ethyl acetate additions (Romania, 3/2024) 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. HG 1218/2006, Annex 1, with subsequent modifications and iso-butanol additions (Romania, 3/2024) VLA 8 hours: 100 mg/m<sup>3</sup>. VLA 8 hours: 33 ppm. Short term 15 minutes: 200 mg/m<sup>3</sup>. Short term 15 minutes: 66 ppm. HG 1218/2006, Annex 1, with subsequent modifications and Propan-2-ol additions (Romania, 3/2024) VLA 8 hours: 200 ma/m3. VLA 8 hours: 81 ppm. Short term 15 minutes: 500 mg/m<sup>3</sup>. Short term 15 minutes: 203 ppm. HG 1218/2006, Annex 1, with subsequent modifications and Ethylbenzene additions (Romania, 3/2024) 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. n-Butyl acetate Government regulation SR c. 355/2006 (Slovakia, 6/2024) [butylacetáty] Inhalation sensitiser. TWA 8 hours: 241 mg/m³ (Butyl acetates). TWA 8 hours: 50 ppm (Butyl acetates). STEL 15 minutes: 723 mg/m³ (Butyl acetates). STEL 15 minutes: 150 ppm (Butyl acetates). Government regulation SR c. 355/2006 (Slovakia, 6/2024) acetone Inhalation sensitiser. TWA 8 hours: 1210 mg/m<sup>3</sup>. TWA 8 hours: 500 ppm. Government regulation SR c. 355/2006 (Slovakia, 6/2024) Toluene Absorbed through skin, Inhalation sensitiser. TWA 8 hours: 192 mg/m<sup>3</sup>.

Xylene Government regulation SR c. 355/2006 (Slovakia, 6/2024) Date of issue/Date of revision : 25/07/2025 : 10/01/2024 Version : 2 Date of previous issue

TWA 8 hours: 50 ppm.

STEL 15 minutes: 384 mg/m<sup>3</sup>. STEL 15 minutes: 100 ppm.

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[xylén, zmiešané izoméry] Absorbed through skin . Inhalation sensitiser.

TWA 8 hours: 221 mg/m³ (xylene, mixed isomers). TWA 8 hours: 50 ppm (xylene, mixed isomers). STEL 15 minutes: 442 mg/m³ (xylene, mixed isomers). STEL 15 minutes: 100 ppm (xylene, mixed isomers).

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

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.

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

[butylalkoholy] Inhalation sensitiser.

TWA 8 hours: 310 mg/m³ (Butyl alkohols). TWA 8 hours: 100 ppm (Butyl alkohols).

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

Inhalation sensitiser. TWA 8 hours: 500 mg/m<sup>3</sup>. TWA 8 hours: 200 ppm. STEL 15 minutes: 1000 mg/m3. STEL 15 minutes: 400 ppm.

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

Absorbed through skin, Inhalation sensitiser.

TWA 8 hours: 442 mg/m<sup>3</sup>. TWA 8 hours: 100 ppm. STEL 15 minutes: 884 mg/m<sup>3</sup>. STEL 15 minutes: 200 ppm.

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

TWA 8 hours: 241 mg/m<sup>3</sup>. TWA 8 hours: 50 ppm.

KTV 15 minutes: 723 mg/m<sup>3</sup> 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 150 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

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

TWA 8 hours: 1210 mg/m<sup>3</sup>. TWA 8 hours: 500 ppm.

KTV 15 minutes: 1000 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 2420 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

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

Repr Dev 2. Absorbed through skin.

TWA 8 hours: 192 mg/m<sup>3</sup>. TWA 8 hours: 50 ppm.

KTV 15 minutes: 384 mg/m<sup>3</sup> 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 100 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) [ksilen] Absorbed through skin.

TWA 8 hours: 221 mg/m<sup>3</sup>. TWA 8 hours: 50 ppm.

KTV 15 minutes: 442 mg/m³ 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].

Regulation on protection of workers from the risks related to

Ethyl acetate

iso-butanol

Propan-2-ol

Ethylbenzene

**n**-Butyl acetate

acetone

Toluene

**Xylene** 

Ethyl acetate

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exposure to chemical substances at work (Slovenia, 4/2024)

TWA 8 hours: 734 mg/m<sup>3</sup>. TWA 8 hours: 200 ppm.

KTV 15 minutes: 1468 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 400 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

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

TWA 8 hours: 310 mg/m<sup>3</sup>. TWA 8 hours: 100 ppm.

KTV 15 minutes: 310 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].

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

TWA 8 hours: 500 mg/m<sup>3</sup>. TWA 8 hours: 200 ppm.

KTV 15 minutes: 1000 mg/m<sup>3</sup> 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 400 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

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

TWA 8 hours: 442 mg/m<sup>3</sup>. TWA 8 hours: 100 ppm.

KTV 15 minutes: 884 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 200 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

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

KTV 15 minutes: 100 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. TWA 8 hours: 50 ppm.

KTV 15 minutes: 440 mg/m<sup>3</sup> 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. TWA 8 hours: 220 mg/m<sup>3</sup>.

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

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

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

TWA 8 hours: 500 ppm. TWA 8 hours: 1210 mg/m<sup>3</sup>.

National institute of occupational safety and health (Spain, 1/2024) Absorbed through skin.

TWA 8 hours: 50 ppm. TWA 8 hours: 192 ma/m<sup>3</sup>. STEL 15 minutes: 100 ppm. STEL 15 minutes: 384 mg/m<sup>3</sup>.

National institute of occupational safety and health (Spain, 1/2024) [xileno, mezcla isómeros] Absorbed through skin.

TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m<sup>3</sup>. STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m<sup>3</sup>.

iso-butanol

Propan-2-ol

Ethylbenzene

1-Ethoxy-2-propanol

n-Butyl acetate

acetone

Toluene

**Xylene** 

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National institute of occupational safety and health (Spain, Ethyl acetate 1/2024) 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. National institute of occupational safety and health (Spain, iso-butanol 1/2024) TWA 8 hours: 50 ppm. TWA 8 hours: 154 mg/m<sup>3</sup>. National institute of occupational safety and health (Spain, Propan-2-ol 1/2024) TWA 8 hours: 200 ppm. TWA 8 hours: 500 mg/m<sup>3</sup>. STEL 15 minutes: 400 ppm. STEL 15 minutes: 1000 mg/m3. National institute of occupational safety and health (Spain, Ethylbenzene 1/2024) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 441 mg/m<sup>3</sup>. STEL 15 minutes: 200 ppm. STEL 15 minutes: 884 mg/m<sup>3</sup>. Work environment authority Regulation 2018:1 (Sweden, n-Butyl acetate 11/2022) [butyl acetate] TWA 8 hours: 50 ppm. TWA 8 hours: 241 mg/m<sup>3</sup>. STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m<sup>3</sup>. Work environment authority Regulation 2018:1 (Sweden, acetone 11/2022) TWA 8 hours: 250 ppm. TWA 8 hours: 600 mg/m<sup>3</sup>. STEL 15 minutes: 500 ppm. STEL 15 minutes: 1200 mg/m<sup>3</sup>. Toluene Work environment authority Regulation 2018:1 (Sweden, 11/2022) Absorbed through skin, Ototoxicant. TWA 8 hours: 50 ppm. TWA 8 hours: 192 mg/m<sup>3</sup>. STEL 15 minutes: 100 ppm. STEL 15 minutes: 384 mg/m<sup>3</sup>. Work environment authority Regulation 2018:1 (Sweden, **Xylene** 11/2022) [xylene] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m<sup>3</sup>. STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m<sup>3</sup>. Ethyl acetate Work environment authority Regulation 2018:1 (Sweden, 11/2022) 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>. Work environment authority Regulation 2018:1 (Sweden, iso-butanol 11/2022) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 150 mg/m<sup>3</sup>. STEL 15 minutes: 75 ppm. STEL 15 minutes: 250 mg/m<sup>3</sup>. Propan-2-ol Work environment authority Regulation 2018:1 (Sweden, 11/2022) TWA 8 hours: 150 ppm. TWA 8 hours: 350 mg/m<sup>3</sup>. STEL 15 minutes: 250 ppm.

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STEL 15 minutes: 600 mg/m<sup>3</sup>. Ethylbenzene

Work environment authority Regulation 2018:1 (Sweden,

11/2022) 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>.

n-Butyl acetate SUVA (Switzerland, 1/2025)

> 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>.

SUVA (Switzerland, 1/2025) acetone

> TWA 8 hours: 500 ppm. TWA 8 hours: 1200 mg/m<sup>3</sup>. STEL 15 minutes: 1000 ppm. STEL 15 minutes: 2400 mg/m<sup>3</sup>.

Toluene SUVA (Switzerland, 1/2025) Develop 2. Absorbed through skin,

Ototoxicant.

TWA 8 hours: 50 ppm. TWA 8 hours: 190 mg/m<sup>3</sup>. STEL 15 minutes: 200 ppm. STEL 15 minutes: 760 mg/m<sup>3</sup>.

SUVA (Switzerland, 1/2025) [Xylol] Absorbed through skin. **Xylene** 

> 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>.

Ethyl acetate SUVA (Switzerland, 1/2025)

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>.

iso-butanol SUVA (Switzerland, 1/2025)

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

SUVA (Switzerland, 1/2025) Propan-2-ol

> TWA 8 hours: 200 ppm. TWA 8 hours: 500 mg/m<sup>3</sup>. STEL 15 minutes: 400 ppm. STEL 15 minutes: 1000 mg/m<sup>3</sup>.

SUVA (Switzerland, 1/2025) Absorbed through skin, Ototoxicant. Ethylbenzene

> 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>.

SUVA (Switzerland, 1/2025) Absorbed through skin. 1-Ethoxy-2-propanol

> STEL 15 minutes: 100 ppm. STEL 15 minutes: 440 mg/m<sup>3</sup>. TWA 8 hours: 50 ppm. TWA 8 hours: 220 mg/m<sup>3</sup>.

EH40/2005 WELs (United Kingdom (UK), 1/2020) n-Butyl acetate

> 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.

EH40/2005 WELs (United Kingdom (UK), 1/2020) acetone

> STEL 15 minutes: 3620 mg/m<sup>3</sup>. STEL 15 minutes: 1500 ppm. TWA 8 hours: 500 ppm. TWA 8 hours: 1210 mg/m<sup>3</sup>.

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Toluene	EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed
	through skin.
	STEL 15 minutes: 384 mg/m³.
	TWA 8 hours: 191 mg/m³.
	TWA 8 hours: 50 ppm.
	STEL 15 minutes: 100 ppm.
Xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020) [xylene, o-,m-,
	p- or mixed isomers] Absorbed through skin.
	STEL 15 minutes: 441 mg/m³.
	TWA 8 hours: 50 ppm.
	TWA 8 hours: 220 mg/m³.
	STEL 15 minutes: 100 ppm.
Ethyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020)
	STEL 15 minutes: 400 ppm.
	TWA 8 hours: 200 ppm.
	STEL 15 minutes: 1468 mg/m³.
	TWA 8 hours: 734 mg/m³.
iso-butanol	EH40/2005 WELs (United Kingdom (UK), 1/2020)
	STEL 15 minutes: 231 mg/m³.
	STEL 15 minutes: 75 ppm.
	TWA 8 hours: 154 mg/m³.
	TWA 8 hours: 50 ppm.
Propan-2-ol	EH40/2005 WELs (United Kingdom (UK), 1/2020)
	STEL 15 minutes: 1250 mg/m³.
	STEL 15 minutes: 500 ppm.
	TWA 8 hours: 999 mg/m³.
	TWA 8 hours: 400 ppm.
Ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed
Laryisonzono	through skin.
	STEL 15 minutes: 552 mg/m³.
	STEL 15 minutes: 125 ppm.
	TWA 8 hours: 100 ppm.
	TWA 8 hours: 441 mg/m³.
	111710110410. 11111119/111.

## **Biological exposure indices**

Product/ingredient name	Exposure indices
Toluene	VGU BEI (Austria, 9/2020)  BEI Fitness: 250 μg/l, toluene [in blood]. Sampling time: one year. BEI Fitness: 0.8 mg/l, o-cresol [in urine]. Sampling time: one year. BEI Fitness: 130000 /μl, platelets (non-pathological differential blood count) [in blood]. Sampling time: one year. BEI Fitness: 150000 /μl, platelets [in blood]. Sampling time: one year. BEI Fitness: 3700 to 13000 /μl, leukocytes (non-pathological differential blood count) [in blood]. Sampling time: one year. BEI Fitness: 4000 to 13000 /μl, leukocytes [in blood]. Sampling time: one year. BEI Fitness - men: 3.8 million/μl, erythrocytes [in blood]. Sampling time: one year. BEI Fitness - women: 3.2 million/μl, erythrocytes [in blood]. Sampling time: one year. BEI Fitness - men: 12 g/dl, hemoglobin [in blood]. Sampling time: one year. BEI Fitness - women: 10 g/dl, hemoglobin [in blood]. Sampling time: one year.
Xylene	VGU BEI (Austria, 9/2020) [Xylole]  BEI Fitness: 1000 μg/l, xylene [in blood]. Sampling time: one year.  BEI Fitness: 1.5 g/l, methylhippuricacid [in urine]. Sampling time: one year.
No exposure indices known.	

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cetone

Toluene

Ethylbenzene

acetone

Toluene

Xylene

Propan-2-ol

Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024)

BLV: 80 mg/l, acetone [in urine]. Sampling time: at the end of the exposure or at the end of the work shift.

Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024)

BLV: 1.6 mmol/mmol creatinine, hippuric acid [in urine]. Sampling time: at the end of the exposure or at the end of the work shift.

Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Notes: significant skin resorption possible

BLV: 2000 mg/g creatinine, mandelic acid and phenylglyoxylic acid – in total [in urine]. Sampling time: at the end of the exposure or at the end of the work shift.

Ordinance on the protection of workers from exposure to hazardous chemicals at work, biological limit values (Annex IV) (Croatia, 12/2023)

BEI: 20 mg/g creatinine, acetone [in urine]. Sampling time: at the end of the work shift.

BEI: 39 mmol/mol creatinine, acetone [in urine]. Sampling time: at the end of the work shift.

BEI: 20 mg/l, acetone [in blood]. Sampling time: at the end of the work shift.

BEI: 0.34 mmol/l, acetone [in blood]. Sampling time: at the end of the work shift.

Ordinance on the protection of workers from exposure to hazardous chemicals at work, biological limit values (Annex IV) (Croatia, 12/2023)

BEI: 20 ppm, toluene [in end exhaled air]. Sampling time: during exposure.

BEI: 0.83 µmol/l, toluene [in end exhaled air]. Sampling time: during exposure.

BEI: 1 mg/l, toluene [in blood]. Sampling time: at the end of the work shift.

BEI:  $10.85 \,\mu\text{mol/I}$ , toluene [in blood]. Sampling time: at the end of the work shift.

BEI: 1.05 mmol/mol creatinine, o-cresol [in urine]. Sampling time: at the end of the work shift.

BEI: 1 mg/g creatinine, o-cresol [in urine]. Sampling time: at the end of the work shift.

BEI: 1.58 mol/mol creatinine, hippuric acid [in urine]. Sampling time: at the end of the work shift.

BEI: 2.5 g/g creatinine, hippuric acid [in urine]. Sampling time: at the end of the work shift.

Ordinance on the protection of workers from exposure to hazardous chemicals at work, biological limit values (Annex IV) (Croatia, 12/2023) [ksilen]

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.

Ordinance on the protection of workers from exposure to hazardous chemicals at work, biological limit values (Annex IV) (Croatia, 12/2023)

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BEI: 50 mg/l, acetone [in urine]. Sampling time: at the end of the work shift.

BEI: 50 mg/l, acetone [in blood]. Sampling time: at the end of the work shift.

BEI: 0.86 µmol/l, acetone [in urine]. Sampling time: at the end of the work shift.

BEI: 0.86 µmol/l, acetone [in blood]. Sampling time: at the end of the work shift.

Ethylbenzene

# Ordinance on the protection of workers from exposure to hazardous chemicals at work, biological limit values (Annex IV) (Croatia, 12/2023)

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.

Voluene

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

Biological limit values: 1000 µmol/mmol creatinine, hippuric acid [in urine]. Sampling time: end of the shift.

Biological limit values: 1600 mg/g, hippuric acid [in urine]. Sampling time: end of the shift.

Biological limit values: 1.6 µmol/mmol creatinine, o-kresol (after hydrolysis) [in urine]. Sampling time: end of the shift.

Biological limit values: 1.5 mg/g creatinine, o-kresol (after hydrolysis) [in urine]. Sampling time: end of the shift.

Xylene

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

Biological limit values: 820 µmol/mmol creatinine, methylhippuric acid [in urine]. Sampling time: end of the shift.

Biological limit values: 1400 mg/g creatinine, methylhippuric acid [in urine]. Sampling time: end of the shift.

### Ethylbenzene

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

Biological limit values: 1100 µmol/mmol creatinine, almond acid [in urine]. Sampling time: end of the shift.

Biological limit values: 1500 mg/g creatinine, almond acid [in urine]. Sampling time: end of the shift.

No exposure indices known.

No exposure indices known.

No exposure indices known.

**T**oluene

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

BEI: 500 nmol/l, toluene [in blood]. Sampling time: the morning after the working day.

#### **Xylene**

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

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

### Ethylbenzene

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

BEI: 5.2 mmol/l, mandelic acid [in urine]. Sampling time: after

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work shift at the end of the working week or exposure period.

**T**oluene

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

BLV: 30 μg/l, toluene [in urine]. Sampling time: at the end of the shift

BLV: 20  $\mu$ g/l, toluene [in blood]. Sampling time: at the beginning of the shift and at the end of the week.

BLV: 300 µg/g Cr, ortho-cresol [in urine]. Sampling time: end of shift and weekend.

DFG BEI-values list (Germany, 7/2024)

BEI: 50 mg/l, acetone [in urine]. Sampling time: end of exposure or end of shift.

TRGS 903 - BEI Values (Germany, 10/2024)

BEI: 50 mg/l, acetone [in urine]. Sampling time: end of exposure or end of shift.

**DFG BEI-values list (Germany, 7/2024)** Notes: danger from percutaneous absorption (see p. 211 and p. 228).

BEI: 600  $\mu$ g/I, toluene [in blood]. Sampling time: immediately after exposure.

BEI: 1.5 mg/l, o-cresol (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift / for long-term exposures: at the end of the shift after several shifts.

BEI: 75 μg/l, toluene [in urine]. Sampling time: end of exposure or end of shift.

TRGS 903 - BEI Values (Germany, 10/2024)

BEI:  $600 \mu g/I$ , toluene [in whole blood]. Sampling time: immediately after exposure.

BEI: 1.5 mg/l, o-cresol (after hydrolysis) [in urine]. Sampling time: at the end of the shift, for long-term exposure after several previous shifts.

BEI: 75  $\mu$ g/I, toluene [in urine]. Sampling time: end of exposure or end of shift.

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

Notes: danger from percutaneous absorption (see p. 211 and p. 228).

BÉI: 1800 mg/g creatinine, Methylhippuric acids (=toluric acids) (all isomers) [in urine]. Sampling time: end of exposure or end of

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

BEI: 2000 mg/l, methylhippuric acid [in urine]. Sampling time: end of exposure or end of shift.

DFG BEI-values list (Germany, 7/2024)

BEI: 25 mg/l, acetone [in blood]. Sampling time: end of exposure or end of shift.

BEI: 25 mg/l, acetone [in urine]. Sampling time: end of exposure or end of shift.

TRGS 903 - BEI Values (Germany, 10/2024)

BEI: 25 mg/l, acetone [in whole blood]. Sampling time: end of exposure or end of shift.

BEI: 25 mg/l, acetone [in urine]. Sampling time: end of exposure or end of shift.

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

TRGS 903 - BEI Values (Germany, 10/2024)

BEI: 250 mg/g creatinine, mandelic acid plus phenylglyoxylic acid

acetone

Toluene

Xylene

Propan-2-ol

Ethylbenzene

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1-Ethoxy-2-propanol

No exposure indices known.

acetone

Toluene

Xylene

Propan-2-ol

Ethylbenzene

No exposure indices known.

acetone

Toluene

**Xylene** 

Propan-2-ol

Ethylbenzene

[in urine]. Sampling time: end of exposure or end of shift.

**DFG BEI-values list (Germany, 7/2024)** Notes: danger from percutaneous absorption (see p. 211 and p. 228).

BEI: See Section XII.2: Substances for which no BAT values are currently be derived, but documentaries in the "work Medicotoxicological justifications for BAT values, EKA and BLW", 1-ethoxy-2-propanol [in urine]. Sampling time: end of exposure or end of shift.

5/2020. (II. 6.) ITM Decree (Hungary, 12/2023)

BEI: 1380 µmol/l, acetone [in urine]. Sampling time: at the end of the shift.

BEI: 80 mg/l, acetone [in urine]. Sampling time: at the end of the shift.

5/2020. (II. 6.) ITM Decree (Hungary, 12/2023)

BEI: 1 mg/g creatinine, o-cresol [in urine]. Sampling time: at the end of the shift.

BEI: 1  $\mu$ mol/mmol creatinine, o-cresol [in urine]. Sampling time: at the end of the shift.

5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) [xilol]

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.

5/2020. (II. 6.) ITM Decree (Hungary, 12/2023)

BEI: 430 µmol/l, acetone [in urine]. Sampling time: at the end of the shift.

BEI: 25 mg/l, acetone [in urine]. Sampling time: at the end of the shift.

5/2020. (II. 6.) ITM Decree (Hungary, 12/2023)

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.

NAOSH BGVs (Ireland, 1/2011)

BMGV: 50 mg/l, acetone [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.

NAOSH BGVs (Ireland, 1/2011)

BMGV: 0.3 mg/g creatinine, o-cresol [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.

BMGV: 0.03 mg/l, toluene [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.

BMGV: 0.02 mg/l, toluene [in blood]. Sampling time: prior to last shift of workweek.

NAOSH BGVs (Ireland, 1/2011) [Xylene]

BMGV: 1.5 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.

NAOSH BGVs (Ireland, 1/2011)

BMGV: 40 mg/l, acetone [in urine]. Sampling time: end of shift at end of workweek.

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NAOSH BGVs (Ireland, 1/2011)

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BMGV: Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative interpretation of the measurement is ambiguous. These analytes should be used as a screening test if a quantitative test is not practical; or as a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question., ethylbenzene [in endexhaled air]. Sampling time: not critical.

BMGV: 0.7 g/g creatinine [Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative interpretation of the measurement is ambiguous. These analytes should be used as a screening test if a quantitative test is not practical; or as a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question.], mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift at end of workweek.

No exposure indices known.

acetone

Toluene

**Xylene** 

Propan-2-ol

No exposure indices known.

acetone

Toluene

**Xylene** 

Propan-2-ol

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

BEI: 80 mg/l, acetone [in urine]. Sampling time: at the end of the exposure or at the end of the shift.

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

BEI:  $600 \mu g/l$ , toluene [in blood]. Sampling time: at the end of the exposure.

BEI: 75 μg/l, toluene [in urine]. Sampling time: end of the shift. BEI: 1.5 mg/l, o-cresol (after hydrolysis) [in urine]. Sampling time: at the end of the exposure or at the end of the shift.

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

BEI: 2000 mg/l, methylhippuric (toluric) acid (all isomers) [in urine]. Sampling time: at the end of the exposure or at the end of the shift.

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

BEI: 25 mg/l, acetone [in urine]. Sampling time: at the end of the exposure or at the end of the shift.

BEI: 25 mg/l, acetone [in blood]. Sampling time: at the end of the exposure or at the end of the shift.

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

BEI: 50 mg/l, acetone [in urine]. Sampling time: end of shift.

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

BEI: 0.3 mg/g creatinine, o-cresol [in urine]. Sampling time: end of shift.

BEI: 0.03 mg/l, toluene [in urine]. Sampling time: end of shift. BEI: 0.02 mg/l, toluene [in blood]. Sampling time: end of shift at the end of the workweek.

## 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: 40 mg/l, acetone [in urine]. Sampling time: end of shift at the

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Ethylbenzene

acetone

Toluene

**Xylene** 

Propan-2-ol

Ethylbenzene

acetone

Toluene

Xylene

end of the workweek.

### 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)

OBLV: 50 mg/l, acetone [in urine]. Sampling time: end of shift.

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

OBLV: 3 mg/l, o-cresol [in urine]. Sampling time: end of shift. OBLV: 2 g/l, hippuric acid [in urine]. Sampling time: end of shift.

### 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: 50 mg/l, acetone [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)

BLV: 103.9 µmol/mmol creatinine, as acetone [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 53.36 mg/g creatinine, as acetone [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 1378 µmol/l, as acetone [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 80 mg/l, as acetone [in urine]. Sampling time: at the end of exposure or work shift.

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

BLV: 1010 µmol/mmol creatinine, as hippuric acid [in urine]. Sampling time: at the end of exposure or work shift.

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

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

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

BLV: 13399 µmol/l, as hippuric acid [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 14.3 µmol/l, as o-cresol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work

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

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

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

BLV: 600 µg/l, as toluene [in blood]. Sampling time: at the end of exposure or work shift.

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

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#### [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  $\mu$ mol/I, as xylene [in blood]. Sampling time: at the end of exposure or work shift.

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

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

### Ethylbenzene

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

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

BLV: 7.44 µmol/mmol creatinine, as 2 or 4-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 urine]. Sampling time: at the end of exposure or work shift; longterm exposure: after several work shifts.

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

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

BLV: 12 mg/l, as 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

#### acetone

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

BAT: 80 mg/l, acetone [in urine]. Sampling time: at the end of the work shift.

#### Toluene

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

BAT: 1.5 mg/l, o-cresol (after hydrolysis) [in urine]. Sampling time: at the end of the work shift, at long-term exposure: at the end of the work shift after several consecutive workdays.

BAT: 600 µg/l, toluene [in blood]. Sampling time: immediately after exposure.

BAT: 75 µg/l, toluene [in urine]. Sampling time: at the end of the work shift.

#### **Xylene**

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

BAT: 2 g/l, methylhippuric acid (all isomers) [in urine]. Sampling time: at the end of the work shift.

Propan-2-ol

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

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BAT: 25 mg/l, acetone [in urine]. Sampling time: at the end of the work shift.

BAT: 25 mg/l, acetone [in blood]. Sampling time: at the end of the work shift.

Ethylbenzene

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

BAT: 250 mg/g creatinine, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of the work shift.

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

VLB: 50 mg/l, acetone [in urine]. Sampling time: end of shift.

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

VLB: 0.05 mg/l, toluene [in blood]. Sampling time: prior to last shift of workweek.

VLB: 0.6 mg/g creatinine, o-cresol [in urine]. Sampling time: end of shift.

VLB: 0.08 mg/l, toluene [in urine]. Sampling time: end of shift.

National institute of occupational safety and health (Spain, 1/2024) [Xilenos]

VLB: 1 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift.

National institute of occupational safety and health (Spain,

VLB: 40 mg/l, acetone [in urine]. Sampling time: end of workweek.

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

VLB: 700 mg/g creatinine, sum of mandelic acid and acid and phenylglyoxylic acid [in urine]. Sampling time: end of workweek.

SUVA (Switzerland, 1/2025)

BEI: 50 mg/l, acetone [in urine]. Sampling time: immediately after exposure or after working hours.

BEI: 0.86 mmol/l, acetone [in urine]. Sampling time: immediately after exposure or after working hours.

SUVA (Switzerland, 1/2025)

BEI: 2 g/g creatinine, hippuric acid [in urine]. Sampling time: immediately after exposure or after working hours. In case of longterm exposure: after more than one shift.

BEI: 1.26 mmol/mmol creatinine, hippuric acid [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.

BEI: 0.5 mg/l, o-cresol [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.

BEI: 4.62 µmol/l, o-cresol [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.

BEI: 600 µg/l, toluene [in blood]. Sampling time: immediately after exposure or after working hours.

BEI: 6.48 µmol/l, toluene [in blood]. Sampling time: immediately after exposure or after working hours.

BEI: 75 μg/l, toluene [in urine]. Sampling time: immediately after exposure or after working hours.

SUVA (Switzerland, 1/2025) [Xylol (alle Isomere)]

BEI: 2 g/l, methyl hippuric acid [in urine]. Sampling time:

acetone

Toluene

**Xylene** 

Propan-2-ol

Ethylbenzene

No exposure indices known.

acetone

Toluene

**Xylene** 

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immediately after exposure or after working hours.

Propan-2-ol

#### SUVA (Switzerland, 1/2025)

BEI: 0.4 mmol/l, acetone [in blood]. Sampling time: immediately after exposure or after working hours.

BEI: 25 mg/l, acetone [in blood]. Sampling time: immediately after exposure or after working hours.

BEI: 0.4 mmol/l, acetone [in urine]. Sampling time: immediately after exposure or after working hours.

BEI: 25 mg/l, acetone [in urine]. Sampling time: immediately after exposure or after working hours.

Ethylbenzene

#### SUVA (Switzerland, 1/2025)

BEI: 600 mg/g creatinine, mandelic acid + phenylglyoxylic acid [in urine]. Sampling time: immediately after exposure or after working hours.

Xylene

EH40/2005 BMGVs (United Kingdom (UK), 1/2020) [Xylene, o-, m-, p- or mixed isomers]

BGV: 650 mmol/mol creatinine, methyl hippuric acid [in urine]. Sampling time: post shift.

# Recommended monitoring procedures

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

#### **DNELs/DMELs**

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

n-Butyl acetate

#### Result

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

2 mg/kg bw/day <u>Effects</u>: Systemic

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

2 mg/kg bw/day <u>Effects</u>: 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 <u>Effects</u>: 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/m³ Effects: Local

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

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

Effects: Systemic

DNEL - General population - Short term - Inhalation

300 mg/m³ Effects: Local

DNEL - General population - Short term - Inhalation

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

Effects: Systemic

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

300 mg/m³ Effects: Local

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

600 mg/m³ <u>Effects</u>: Local

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

600 mg/m³ Effects: Systemic

DNEL - General population - Long term - Oral

62 mg/kg bw/day Effects: Systemic

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

62 mg/kg bw/day Effects: Systemic

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

186 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - General population - Long term - Inhalation

200 mg/m³
Effects: Systemic

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

1210 mg/m³ Effects: Systemic

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

2420 mg/m³ Effects: Local

DNEL - General population - Long term - Oral

8.13 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

56.5 mg/m³ Effects: Local

DNEL - General population - Long term - Inhalation

56.5 mg/m³ Effects: Systemic

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

192 mg/m³ <u>Effects</u>: Local

DNEL - Workers - Long term - Inhalation

192 mg/m<sup>3</sup>

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acetone

Toluene

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Effects: Systemic

DNEL - General population - Long term - Dermal

226 mg/kg bw/day Effects: Systemic

DNEL - General population - Short term - Inhalation

226 mg/m³ Effects: Local

DNEL - General population - Short term - Inhalation

226 mg/m<sup>3</sup>

Effects: Systemic

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

384 mg/kg bw/day <u>Effects</u>: Systemic

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

384 mg/m³ Effects: Local

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

384 mg/m³ Effects: Systemic

DNEL - General population - Long term - Oral

5 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

65.3 mg/m³ Effects: Local

DNEL - General population - Long term - Inhalation

65.3 mg/m³ 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/m³ Effects: Local

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

221 mg/m³ Effects: Systemic

DNEL - General population - Short term - Inhalation

260 mg/m³ Effects: Local

DNEL - General population - Short term - Inhalation

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260 mg/m³ Effects: Systemic

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

442 mg/m³ Effects: Local

Xylene

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

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

Ethyl acetate

iso-butanol

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DNEL - General population - Long term - Oral

4.5 mg/kg bw/day Effects: Systemic

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

37 mg/kg bw/day Effects: Systemic

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

63 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

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

DNEL - General population - Long term - Inhalation

367 ma/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 ma/m<sup>3</sup> Effects: Systemic

DNEL - General population - Long term - Inhalation

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

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

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

DNEL - Workers - Long term - Inhalation Propan-2-ol

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

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

888 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Oral

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26 mg/kg bw/day

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Effects: Systemic

DNEL - General population - Short term - Oral

51 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

89 mg/m<sup>3</sup>

Effects: Systemic

DNEL - General population - Short term - Inhalation

178 mg/m<sup>3</sup>

Effects: Systemic

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

319 mg/kg bw/day Effects: Systemic

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

1000 mg/m³ Effects: Systemic

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

442 mg/m³ Effects: Local

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

884 mg/m³
<u>Effects</u>: 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/m³ Effects: Local

DNEL - General population - Long term - Oral

14 mg/kg bw/day Effects: Systemic

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

44.3 mg/kg bw/day Effects: Systemic

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

74 mg/kg bw/day Effects: Systemic

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

106 mg/m³ Effects: Systemic

Ethylbenzene

1-Ethoxy-2-propanol

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DNEL - General population - Long term - Inhalation

127 mg/m³ Effects: Systemic

DNEL - General population - Short term - Inhalation

300 mg/m³ Effects: Systemic

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

500 mg/m³ Effects: Systemic

titanium dioxide DNEL - General population - Long term - Inhalation

28 μg/m³ <u>Effects</u>: Local

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

170 μg/m³ <u>Effects</u>: Local

#### **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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### **Eye/face protection**

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

### **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.

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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

Initial boiling point and

boiling range

Ingredient name	°C	°F	Method
acetone	56.05	132.9	
Ethyl acetate	77.1	170.8	

Flammability : Not available.

Lower and upper explosion

limit

Lower: 0.8% (xylene)
Upper: 13% (acetone)

: Not available.

Flash point : Closed cup: -19°C (-2.2°F)

Auto-ignition temperature :

Ingredient name	°C	°F	Method
Ethoxy-2-propanol	255	491	
n-Butyl acetate	415	779	EU A.15

Decomposition temperature : Not available.pH : Mot available.

Viscosity : Not available.

Solubility(ies) :

Not available.

Solubility in water : Not available.

Partition coefficient: n-octanol/ : Not applicable.

water

Vapour pressure

	Va	Vapour Pressure at 20°C			Vapour pressure at 50		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
acetone	180.01463	24					
Ethyl acetate	81.59163	10.9					

Relative density : Not available.

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

n-Butyl acetate Rat - Oral - LD50 10760 mg/kg

Rabbit - Dermal - LD50

14112 mg/kg

Rat - Inhalation - LC50 Vapour

0.74 mg/l [4 hours]

Rat - Oral - LD50 acetone

5800 mg/kg

Toxic effects: Behavioral - Altered sleep time (including

change in righting reflex) Behavioral - Tremor

Toluene Rat - Oral - LD50

636 mg/kg

Rat - Inhalation - LC50 Vapour

49 g/m3 [4 hours]

**Xylene** Rat - Oral - LD50

4300 mg/kg

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

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Bladder - Other changes

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Rat - Inhalation - LC50 Vapour

21.7 mg/l [4 hours]

Ethyl acetate Rat - Oral - LD50

5620 mg/kg

iso-butanol Rat - Oral - LD50

2460 mg/kg

Rabbit - Dermal - LD50

3400 mg/kg

Rat - Inhalation - LC50 Vapour

19200 mg/m³ [4 hours]

Propan-2-ol Rabbit - Dermal - LD50

12800 mg/kg

Rat - Oral - LD50 5000 mg/kg

Toxic effects: Behavioral - General anesthetic

Ethylbenzene Rat - Oral - LD50

3500 mg/kg

Rabbit - Dermal - LD50

15400 mg/kg

Rat - Inhalation - LC50 Dusts and mists

29000 mg/l [4 hours]

1-Ethoxy-2-propanol Rat - Oral - LD50

4400 mg/kg

Rabbit - Dermal - LD50

8100 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)
W COMBI 2315-15	N/A	12674.0	N/A	102.7	N/A
n-Butyl acetate	10760	14112	N/A	N/A	N/A
acetone	5800	N/A	N/A	N/A	N/A
Toluene	N/A	N/A	N/A	49	N/A
Xylene	4300	1100	N/A	11	N/A
Ethyl acetate	5620	N/A	N/A	N/A	N/A
iso-butanol	2460	3400	N/A	N/A	N/A
Propan-2-ol	5000	12800	N/A	N/A	N/A
Ethylbenzene	3500	15400	N/A	11	29000
1-Ethoxy-2-propanol	4400	8100	N/A	N/A	N/A

Skin corrosion/irritation

**Product/ingredient name** Result

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P-Butyl acetate Rabbit - Skin - Moderate irritant

<u>Duration of treatment/exposure</u>: 24 hours Amount/concentration applied: 500 mg

acetone Rabbit - Skin - Mild irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 500 mg

Rabbit - Skin - Mild irritant

Amount/concentration applied: 395 mg

Toluene Pig - Skin - Mild irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 250 uL

Rabbit - Skin - Mild irritant

Amount/concentration applied: 435 mg

Rabbit - Skin - Moderate irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 20 mg

Rabbit - Skin - Moderate irritant <u>Amount/concentration applied</u>: 500 mg

Xylene Rat - Skin - Mild irritant

<u>Duration of treatment/exposure</u>: 8 hours <u>Amount/concentration applied</u>: 60 uL

Rabbit - Skin - Moderate irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 500 mg

Rabbit - Skin - Moderate irritant

Amount/concentration applied: 100 %

Propan-2-ol Rabbit - Skin - Mild irritant

Amount/concentration applied: 500 mg

Ethylbenzene Rabbit - Skin - Mild irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 15 mg

titanium dioxide Human - Skin - Mild irritant

<u>Duration of treatment/exposure</u>: 72 hours <u>Amount/concentration applied</u>: 300 ug I

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

Serious eye damage/eye irritation

Product/ingredient name Result

P-Butyl acetate Rabbit - Eyes - Moderate irritant

Amount/concentration applied: 100 mg

acetone Human - Eyes - Mild irritant

Amount/concentration applied: 186300 ppm

Rabbit - Eyes - Mild irritant

Amount/concentration applied: 10 uL

Rabbit - Eyes - Moderate irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 20 mg

Rabbit - Eyes - Severe irritant

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Amount/concentration applied: 20 mg

Toluene Rabbit - Eyes - Mild irritant

> Duration of treatment/exposure: 0.5 minutes Amount/concentration applied: 100 mg

Rabbit - Eyes - Mild irritant

Amount/concentration applied: 870 ug

Rabbit - Eyes - Severe irritant

Duration of treatment/exposure: 24 hours Amount/concentration applied: 2 mg

Rabbit - Eyes - Severe irritant Amount/concentration applied: 0.1 MI

Rabbit - Eyes - Mild irritant

Amount/concentration applied: 87 mg

Rabbit - Eyes - Severe irritant

Duration of treatment/exposure: 24 hours Amount/concentration applied: 5 mg

Propan-2-ol Rabbit - Eyes - Moderate irritant

> Duration of treatment/exposure: 24 hours Amount/concentration applied: 100 mg

Rabbit - Eyes - Moderate irritant Amount/concentration applied: 10 mg

Rabbit - Eyes - Severe irritant

Amount/concentration applied: 100 mg

Rabbit - Eyes - Severe irritant Ethylbenzene

Amount/concentration applied: 500 mg

Rabbit - Eyes - Moderate irritant 1-Ethoxy-2-propanol

> Duration of treatment/exposure: 24 hours Amount/concentration applied: 100 mg

Conclusion/Summary [Product] : Not available.

#### **Respiratory corrosion/irritation**

Not available.

**Xylene** 

Conclusion/Summary [Product] : Not available.

### Respiratory or skin sensitization

Not available.

Skin

Conclusion/Summary [Product] : Not available.

Respiratory

Conclusion/Summary [Product] : Not available.

### **Germ cell mutagenicity**

Not available.

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

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#### Carcinogenicity

It has been observed that the carcinogenic hazard of this product arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung.

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 Result

p-Butyl acetate STOT SE 3, H336 (Narcotic effects) acetone STOT SE 3, H336 (Narcotic effects) Toluene STOT SE 3, H336 (Narcotic effects)

Xylene STOT SE 3, H335 (Respiratory tract irritation)

Ethyl acetate STOT SE 3, H336 (Narcotic effects)

iso-butanol STOT SE 3, H335 (Respiratory tract irritation)

Propan-2-ol STOT SE 3, H336 (Narcotic effects)

1-Ethoxy-2-propanol STOT SE 3, H336 (Narcotic effects)

STOT SE 3, H336 (Narcotic effects)

### Specific target organ toxicity (repeated exposure)

Product/ingredient name Result

√oluene STOT RE 2, H373

Xylene STOT RE 2, H373 (oral, inhalation)

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

**Aspiration hazard** 

Product/ingredient name Result

Toluene ASPIRATION HAZARD - Category 1
Xylene ASPIRATION HAZARD - Category 1
Ethylbenzene ASPIRATION HAZARD - Category 1

### Information on likely routes of exposure

Not available.

Potential acute health effects

**Eye contact** : Causes serious eye damage.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

**Skin contact**: Causes skin irritation.

**Ingestion** : Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact**: Adverse symptoms may include the following:

pain watering redness

**Inhalation** : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness reduced foetal weight increase in foetal deaths

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skeletal malformations

**Skin contact**: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations

**Ingestion** : Adverse symptoms may include the following:

stomach pains reduced foetal weight increase in foetal deaths skeletal malformations

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

**Short term exposure** 

**Potential immediate** 

: Not available.

effects

Potential delayed effects : Not available.

**Long term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

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

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Reproductive toxicity : Suspected of damaging the unborn child.

### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

Not available.

**Conclusion/Summary [Product]**: The product does not meet the criteria to be considered as having endocrine

Result

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

n-Butyl acetate

**Product/ingredient name** 

Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas* 

Age: 31 to 32 days; Size: 21.6 mm; Weight: 0.175 g

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18000 μg/l [96 hours] Effect: Mortality

Acute - LC50 - Marine water

Crustaceans - Brine shrimp - Artemia salina

32 mg/l [48 hours] Effect: Mortality

acetone Acute - LC50 - Fresh water

Daphnia - Water flea - Daphnia magna

10000 µg/l [48 hours] Effect: Mortality

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#### Acute - LC50 - Fresh water

Fish - Guppy - *Poecilia reticulata*Age: 4 to 12 months; <u>Size</u>: 2 to 10 cm

5600 ppm [96 hours] Effect: Mortality

#### **Chronic - NOEC - Marine water**

Algae - Green algae - Ulva pertusa

4.95 mg/l [96 hours] Effect: Reproduction

#### Acute - EC50 - Marine water

Algae - Green algae - Ulva pertusa

20.565 mg/l [96 hours] Effect: Reproduction

#### Chronic - NOEC - Fresh water

Crustaceans - Daphnia - Daphniidae

0.016 ml/l [21 days] Effect: Population

#### **Chronic - NOEC - Marine water**

Fish - Threespine stickleback - Gasterosteus aculeatus -

Larvae
Age: 7 days
5 µg/l [42 days]
Effect: Growth

#### Acute - LC50 - Fresh water

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

Weight: 1 g

5500 µg/l [96 hours] Effect: Mortality

#### Acute - EC50 - Fresh water

Algae - Green algae - Pseudokirchneriella subcapitata

12500 μg/l [72 hours] Effect: Growth

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

Daphnia - Water flea - Daphnia magna

<u>Age</u>: ≤24 hours 1000 μg/l [21 days] <u>Effect</u>: Reproduction

### Acute - EC50 - Fresh water

Daphnia - Water flea - Daphnia magna - Neonate

Age: ≤24 hours 5.56 mg/l [48 hours] Effect: Intoxication

#### 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.

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Toluene

Ethyl acetate

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2500000 µg/l [96 hours]

**Chronic - NOEC - Fresh water** 

Daphnia - Water flea - Daphnia magna

12 mg/l [21 days] Effect: Behavior

Chronic - NOEC - Fresh water

Fish - Fathead minnow - Pimephales promelas - Embryo

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

Acute - LC50 - Fresh water iso-butanol

Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss

Weight: 1.67 g

1330000 µg/l [96 hours]

Effect: Mortality

Acute - LC50 - Marine water

Crustaceans - Brine shrimp - Artemia salina

600 mg/l [48 hours] Effect: Mortality

Propan-2-ol Acute - LC50 - Marine water

Crustaceans - Common shrimp, sand shrimp - Crangon

crangon

1400000 µg/l [48 hours]

Effect: Mortality

Acute - LC50 - Fresh water

Fish - Harlequinfish, red rasbora - Rasbora heteromorpha

Size: 1 to 3 cm

4200000 µg/l [96 hours]

Effect: Mortality

titanium dioxide Acute - LC50 - Marine water

Fish - Mummichog - Fundulus heteroclitus

>1000000 µg/l [96 hours]

Effect: Mortality

Acute - LC50 - Fresh water

Crustaceans - Water flea - Ceriodaphnia dubia - Neonate

Age: <24 hours 3 mg/l [48 hours] Effect: Mortality

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

12.2 Persistence and degradability

**Product/ingredient name** Result

so-butanol 74% [28 days] - Readily

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
iso-butanol	-	-	Readily

### 12.3 Bioaccumulative potential

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Product/ingredient name	LogPow	BCF	Potential
<mark>ଜ</mark> -Butyl acetate	2.3	-	Low
acetone	-0.23	-	Low
Toluene	2.73	90	Low
Xylene	3.12	8.1 to 25.9	Low
Ethyl acetate	0.68	30	Low
iso-butanol	1	-	Low
Propan-2-ol	0.05	-	Low
Ethylbenzene	3.6	-	Low
1-Ethoxy-2-propanol	<1	-	Low

### 12.4 Mobility in soil

### Soil/water partition coefficient

Product/ingredient name	logKoc	Koc
<mark>ଜ</mark> -Butyl acetate	1.5	33.2139
acetone	0.56	3.6548
Toluene	2.1	117.115
Ethyl acetate	1.3	18.1744
iso-butanol	1.1	12.0246
Propan-2-ol	0.54	3.4364
Ethylbenzene	2.2	170.406
1-Ethoxy-2-propanol	1.2	14.7877

### Results of PMT and vPvM assessment

Product/ingredient name	PMT	P	M	T	vPvM	νP	νM	
<mark>ଜ-</mark> Butyl acetate	No	No	No	No	No	No	No	
acetone	No	No	No	No	No	No	No	
Toluene	No	No	No	No	No	No	No	
Xylene	No	No	No	No	No	No	No	
Ethyl acetate	No	No	No	No	No	No	No	
iso-butanol	No	No	No	No	No	No	No	
Propan-2-ol	No	No	No	No	No	No	No	
Ethylbenzene	No	No	No	No	No	No	No	
1-Ethoxy-2-propanol	No	No	No	No	No	No	No	
titanium dioxide	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	В	T	vPvB	νP	vB	
<mark>ଜ</mark> -Butyl acetate	No	N/A	N/A	No	N/A	N/A	N/A	
acetone	N/A	N/A	N/A	Yes	N/A	N/A	N/A	
Toluene	No	N/A	No	Yes	No	N/A	No	
Xylene	No	N/A	No	Yes	No	N/A	No	
Ethyl acetate	No	N/A	No	No	No	N/A	No	
iso-butanol	No	N/A	N/A	No	N/A	N/A	N/A	
Propan-2-ol	No	N/A	N/A	No	N/A	N/A	N/A	
Ethylbenzene	N/A	N/A	N/A	Yes	N/A	N/A	N/A	
1-Ethoxy-2-propanol	No	N/A	N/A	No	N/A	N/A	N/A	
titanium dioxide	No	No	No	No	No	No	No	

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

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Product/ingredient name	PBT	P	В	T	vPvB	vP	vB	
n-Butyl acetate	No	No	No	No	No	No	No	
acetone	No	No	No	No	No	No	No	
Toluene	No	No	No	No	No	No	No	
Xylene	No	No	No	No	No	No	No	
Ethyl acetate	No	No	No	No	No	No	No	
iso-butanol	No	No	No	No	No	No	No	
Propan-2-ol	No	No	No	No	No	No	No	
Ethylbenzene	No	No	No	No	No	No	No	
1-Ethoxy-2-propanol	No	No	No	No	No	No	No	
titanium dioxide	No	No	No	No	No	No	No	

**Conclusion/Summary Regulation (EC) No. 1272/2008** [CLP]

: The product does not meet the criteria to be considered as a PBT or vPvB.

### 12.6 Endocrine disrupting properties

Not available.

**Conclusion/Summary [Product]** 

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

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

# **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

#### **Product**

**Methods of disposal** 

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

**Hazardous waste** 

**European waste** 

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

catalogue (EWC)

: 08.01.11

**Packaging** 

**Methods of disposal** 

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

**Special precautions** 

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

# **SECTION 14: Transport information**

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# **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	<b>⊌</b> N1263	<b>☑</b> N1263	<b>V</b> N1263	<b>☑</b> N1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	II	II	II	II
14.5 Environmental hazards	No.	Yes.	<b>№</b> o.	No.

#### **Additional information**

ADR/RID : Special provisions 640 (C)

Tunnel code (D/E)

**ADN** : The product is only regulated as an environmentally hazardous substance when

> transported in tank vessels. Special provisions 640 (C)

: The environmentally hazardous substance mark may appear if required by other **IATA** 

transportation regulations.

14.6 Special precautions for

: 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]
OW COMBI 2315-15	≥90	3
Toluene	<10	48

Labelling

**Other EU regulations** 

**Industrial emissions** : Listed (integrated pollution

prevention and control) -

**Air** 

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# SECTION 15: Regulatory information

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

Water

**Explosive precursors** 

: This product is regulated by Regulation (EU) 2019/1148. All suspicious transactions,

and significant disappearances and thefts should be reported to the relevant

national contact point.

### 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 Limitation of the use of organic solvents

: Category 2 : Permitted.

**Belgium** 

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

Ingredient name	Status
<b>S</b> ílice	Listed

#### **Czech Republic**

Storage code : 1

**Denmark** 

Fire class : 14 **Executive Order No. 1795/2015** 

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

**MAL-code** 4-3

**Protection based on MAL** 

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

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

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

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# **SECTION 15: Regulatory information**

MAL-code: 4-3

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

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

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

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

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

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

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

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

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

- Air-supplied full mask must be worn.

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

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

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

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

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

\*See Regulations.

Low-boiling liquids

: This product contains low-boiling point liquids. Any respiratory protective equipment should be air-fed.

**Restrictions on use** 

: Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At Work.

List of undesirable substances

: Listed

Carcinogenic waste

: Waste containers must be labeled: Contains a substance or substances regulated by Danish working environment legislation on cancer risks.

: 10/01/2024

Finland France

Social Security Code, Articles L 461-1 to L 461-7 : P-Butyl acetate RG 84 acetone RG 84
Toluene RG 4bis, RG 84

Xylene RG 4bis, RG 84
Ethyl acetate RG 84
iso-butanol RG 84
Propan-2-ol RG 84

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# SECTION 15: Regulatory information

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 : 3

Technical instruction on air quality control (TA Luft)

Number [Class]	Description	%
<b>5</b> .2.1	Total dust	23.9
5.2.5	Organic substances	76
5.2.5 [I]	Organic substances	73.7

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		Reproductive toxicity - Fertility		Harmful via breastfeeding
tolueen xyleen	-	-	-	Development 2 Development 2	-

**Water Discharge Policy** 

(ABM)

: A(1) Highly toxic for aquatic organisms, may have long-term hazardous effects in

aquatic environment. Decontamination effort: A

**Norway** 

**Sweden** 

Flammable liquid class : 1

(SRVFS 2005:10)

**Switzerland** 

**VOC** content : VOC (w/w): 73.6%

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### **Montreal Protocol**

Not listed.

**Stockholm Convention on Persistent Organic Pollutants** 

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

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

Not listed.

15.2 Chemical safety assessment

: This product contains substances for which Chemical Safety Assessments are still required.

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### **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 (EC) No.

1272/2008

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification
Flam. Liq. 2, H225	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method
Repr. 2, H361d	Calculation method
STOT SE 3, H336	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.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
EUH066	Repeated exposure may cause skin dryness or cracking.

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

Acute Tox. 4	ACUTE TOXICITY - Category 4
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Carc. 2	CARCINOGENICITY - Category 2
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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

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.

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