## SAFETY DATA SHEET



TEKNODUR COMBI 770-500 - All variants

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

1.1 Product identifier

Product name : TEKNODUR COMBI 770-500 - 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. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT RE 2, H373 Aquatic Chronic 2, H411

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

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

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

#### 2.2 Label elements

Hazard pictograms









Signal word : Warning

**Hazard statements** : H226 - Flammable liquid and vapour.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

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

H411 - Toxic to aquatic life with long lasting effects.

**Precautionary statements** 

**Prevention**: P280 - Wear protective gloves. Wear eye or face protection.

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

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sources. No smoking.

P273 - Avoid release to the environment.

P260 - Do not breathe vapour.

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## **SECTION 2: Hazards identification**

Response

: P391 - Collect spillage.

Storage

: Not applicable.

Disposal

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

national and international regulations.

**Hazardous ingredients** 

Supplemental label

elements

: Contains: Xylene

: 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

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
Kylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥10 - <20	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/ I	[1] [2]
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≥10 - ≤25	Carc. 2, H351 (inhalation)	-	[1] [*]
n-Butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥10 - <20	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1] [2]
Ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤5	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/ I	[1] [2]
Trizinc bis(orthophosphate)	REACH #: 01-2119485044-40 EC: 231-944-3 CAS: 7779-90-0 Index: 030-011-00-6	≤3	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]

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#### SECTION 3: Composition/information on ingredients Zinc oxide REACH #: ≤3 Aguatic Acute 1, H400 M [Acute] = 1 [1] 01-2119463881-32 Aquatic Chronic 1, M [Chronic] = 1H410 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7 See Section 16 for the full text of the H statements declared

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.

#### <u>Type</u>

- [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

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention following exposure or if feeling unwell. 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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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

#### Over-exposure signs/symptoms

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

pain or irritation watering redness

Inhalation : No specific data.

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

irritation redness

Ingestion : No specific data.

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

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

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

## SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing

media

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

Unsuitable extinguishing media

: Do not use water jet.

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

**Hazards from the** substance or mixture : Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous combustion** products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide sulfur oxides phosphorus 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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders:

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

6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

#### 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. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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#### **SECTION 6: Accidental release measures**

#### Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

## 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). Do not breathe vapour or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

## Advice on general occupational hygiene

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

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

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. 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.

#### Seveso Directive - Reporting thresholds

#### **Danger criteria**

	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonne	50000 tonne
E2	200 tonne	500 tonne

#### 7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

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

### 8.1 Control parameters

#### **Occupational exposure limits**

Product/ingredient name	Exposure limit values
<b>⋉</b> ylene	Regulation on Limit Values - MAC (Austria, 4/2021). [Xylenes (all isomers)] PEAK: 442 mg/m³, 4 times per shift, 15 minutes.
	TWA: 50 ppm 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes.
	TWA: 221 mg/m³ 8 hours.
n-Butyl acetate	Regulation on Limit Values - MAC (Austria, 4/2021). [Butyl acetate (all isomers except tert-butyl acetate)]
	CEIL: 480 mg/m³ 15 minutes.
	CEIL: 100 ppm 15 minutes. TWA: 241 mg/m³ 8 hours.
	TWA: 241 mg/m o flours.
Ethylbenzene	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed through skin.
	TWA: 100 ppm 8 hours.
	TWA: 440 mg/m³ 8 hours.
	CEIL: 200 ppm, 8 times per shift, 5 minutes.
	CEIL: 880 mg/m³, 8 times per shift, 5 minutes.
Xylene	Limit values (Belgium, 5/2021). [Xylene] Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 221 mg/m³ 8 hours. STEL: 100 ppm 15 minutes.
	STEL: 442 mg/m³ 15 minutes.
n-Butyl acetate	Limit values (Belgium, 5/2021). [butyl acetate, all isomers]
,	STEL: 712 mg/m³ 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 238 mg/m³ 8 hours.
Cthylbon zono	TWA: 50 ppm 8 hours.
Ethylbenzene	Limit values (Belgium, 5/2021). Absorbed through skin. TWA: 20 ppm 8 hours.
	TWA: 20 ppm o nours.
	STEL: 125 ppm 15 minutes.
	STEL: 551 mg/m³ 15 minutes.
<b>X</b> ylene	Ministry of Labour and Social Policy and the Ministry of
	Health - Ordinance No 13/2003. (Bulgaria, 6/2021). [Xylene
	(mixture of isomers), pure] Absorbed through skin.
	Limit value 8 hours: 221 mg/m³ 8 hours. Limit value 15 min: 442 mg/m³ 15 minutes.
	Limit value 15 min: 442 mg/m² 15 minutes.  Limit value 15 min: 100 ppm 15 minutes.
	Limit value 8 hours: 50 ppm 8 hours.
n-Butyl acetate	Ministry of Labour and Social Policy and the Ministry of
,	Health - Ordinance No 13/2003. (Bulgaria, 6/2021).
	Limit value 8 hours: 241 mg/m³ 8 hours.
	Limit value 15 min: 723 mg/m³ 15 minutes.
	Limit value 15 min: 150 ppm 15 minutes.
Ethylbenzene	Limit value 8 hours: 50 ppm 8 hours.  Ministry of Labour and Social Policy and the Ministry of
Lutyibotizerie	Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed
	through skin.
	Limit value 8 hours: 435 mg/m³ 8 hours.
	Limit value 15 min: 545 mg/m³ 15 minutes.

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Xvlene Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). [xylene (all isomers)] Absorbed through skin. STELV: 442 mg/m3 15 minutes. STELV: 100 ppm 15 minutes. ELV: 221 mg/m<sup>3</sup> 8 hours. ELV: 50 ppm 8 hours. Ministry of Economy, Labour and Entrepreneurship ELV/ n-Butyl acetate STELV (Croatia, 1/2021). STELV: 723 mg/m<sup>3</sup> 15 minutes. STELV: 150 ppm 15 minutes. ELV: 241 mg/m<sup>3</sup> 8 hours. ELV: 50 ppm 8 hours. Ethylbenzene Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). Absorbed through skin. STELV: 884 mg/m<sup>3</sup> 15 minutes. STELV: 200 ppm 15 minutes. ELV: 442 mg/m<sup>3</sup> 8 hours. ELV: 100 ppm 8 hours. Xylene Department of labour inspection (Cyprus, 7/2021). [Xylene, mixed isomers] Absorbed through skin. STEL: 100 ppm 15 minutes. STEL: 442 mg/m<sup>3</sup> 15 minutes. TWA: 50 ppm 8 hours. TWA: 221 mg/m<sup>3</sup> 8 hours. Department of labour inspection (Cyprus, 7/2021). n-Butyl acetate STEL: 150 ppm 15 minutes. STEL: 723 mg/m3 15 minutes. TWA: 50 ppm 8 hours. TWA: 241 mg/m<sup>3</sup> 8 hours. Department of labour inspection (Cyprus, 7/2021). Absorbed Ethylbenzene through skin. STEL: 884 mg/m<sup>3</sup> 15 minutes. TWA: 100 ppm 8 hours. TWA: 442 mg/m<sup>3</sup> 8 hours. STEL: 200 ppm 15 minutes. Xylene Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). [xylene, technical mixture of isomers and all isomers] Absorbed through skin. TWA: 200 mg/m<sup>3</sup> 8 hours. TWA: 45.4 ppm 8 hours. STEL: 400 mg/m<sup>3</sup> 15 minutes. STEL: 90.8 ppm 15 minutes. Government regulation of Czech Republic PEL/NPK-P (Czech n-Butyl acetate Republic, 10/2022). TWA: 241 mg/m<sup>3</sup> 8 hours. STEL: 723 mg/m3 15 minutes. STEL: 149.661 ppm 15 minutes. TWA: 49.887 ppm 8 hours. Ethylbenzene Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). Absorbed through skin. TWA: 200 mg/m<sup>3</sup> 8 hours. TWA: 45.4 ppm 8 hours. STEL: 500 mg/m<sup>3</sup> 15 minutes. STEL: 113.5 ppm 15 minutes. Xylene Working Environment Authority (Denmark, 6/2022). [Xylenes, all isomers] Absorbed through skin. TWA: 25 ppm 8 hours. TWA: 109 mg/m<sup>3</sup> 8 hours. STEL: 442 mg/m<sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes. n-Butyl acetate Working Environment Authority (Denmark, 6/2022). [Butyl acetate, all isomers]

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TWA: 50 ppm 8 hours. TWA: 241 mg/m<sup>3</sup> 8 hours. STEL: 723 mg/m<sup>3</sup> 15 minutes. STEL: 150 ppm 15 minutes. Ethylbenzene Working Environment Authority (Denmark, 6/2022). Absorbed through skin. Carcinogen. TWA: 50 ppm 8 hours. TWA: 217 mg/m<sup>3</sup> 8 hours. STEL: 434 mg/m<sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes. **X**ylene Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). [Xylenes] Absorbed through skin. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. STEL: 450 mg/m<sup>3</sup> 15 minutes. TWA: 200 mg/m<sup>3</sup> 8 hours. n-Butyl acetate Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 241 mg/m<sup>3</sup> 8 hours. Ethylbenzene Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). Absorbed through skin. Skin sensitiser. TWA: 442 mg/m<sup>3</sup> 8 hours. TWA: 100 ppm 8 hours. STEL: 884 mg/m<sup>3</sup> 15 minutes. STEL: 200 ppm 15 minutes. Xylene EU OEL (Europe, 1/2022). [xylene, mixed isomers pure] Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 50 ppm 8 hours. TWA: 221 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m<sup>3</sup> 15 minutes. n-Butyl acetate EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values STEL: 150 ppm 15 minutes. STEL: 723 mg/m<sup>3</sup> 15 minutes. TWA: 241 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. Ethylbenzene EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 100 ppm 8 hours. TWA: 442 mg/m<sup>3</sup> 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m<sup>3</sup> 15 minutes. Xylene Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). [Xylenes] Absorbed through skin. STEL: 440 mg/m<sup>3</sup> 15 minutes. TWA: 220 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. Institute of Occupational Health, Ministry of Social Affairs n-Butyl acetate (Finland, 10/2021). TWA: 150 ppm 8 hours. TWA: 720 mg/m<sup>3</sup> 8 hours. STEL: 200 ppm 15 minutes. STEL: 960 mg/m3 15 minutes. Institute of Occupational Health, Ministry of Social Affairs Ethylbenzene (Finland, 10/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 220 mg/m<sup>3</sup> 8 hours.

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Xylene

n-Butyl acetate

Ethylbenzene

STEL: 200 ppm 15 minutes. STEL: 880 mg/m<sup>3</sup> 15 minutes.

Ministry of Labor (France, 10/2022). [xylenes, mixed isomers, pure] Absorbed through skin. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)

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

Ministry of Labor (France, 10/2022). Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)

TWA: 50 ppm 8 hours. TWA: 241 mg/m<sup>3</sup> 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m3 15 minutes.

Ministry of Labor (France, 10/2022). Absorbed through skin. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)

TWA: 20 ppm 8 hours. TWA: 88.4 mg/m<sup>3</sup> 8 hours. STEL: 442 mg/m<sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes.

TRGS 900 OEL (Germany, 6/2022). [xylene] Absorbed through skin.

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

DFG MAC-values list (Germany, 7/2022). [Xylene (all isomers)]

Absorbed through skin. TWA: 50 ppm 8 hours.

PEAK: 100 ppm, 4 times per shift, 15 minutes.

TWA: 220 mg/m<sup>3</sup> 8 hours.

PEAK: 440 mg/m³, 4 times per shift, 15 minutes.

DFG MAC-values list (Germany, 7/2022).

TWA: 100 ppm 8 hours.

PEAK: 200 ppm, 4 times per shift, 15 minutes.

TWA: 480 mg/m<sup>3</sup> 8 hours.

PEAK: 960 mg/m<sup>3</sup>, 4 times per shift, 15 minutes.

TRGS 900 OEL (Germany, 6/2022).

TWA: 300 mg/m<sup>3</sup> 8 hours. TWA: 62 ppm 8 hours. PEAK: 600 mg/m<sup>3</sup> 15 minutes. PEAK: 124 ppm 15 minutes.

TRGS 900 OEL (Germany, 6/2022). Absorbed through skin.

TWA: 88 mg/m<sup>3</sup> 8 hours. PEAK: 176 mg/m³ 15 minutes. TWA: 20 ppm 8 hours. PEAK: 40 ppm 15 minutes.

DFG MAC-values list (Germany, 7/2022). Absorbed through skin.

PEAK: 40 ppm, 4 times per shift, 15 minutes. PEAK: 176 mg/m³, 4 times per shift, 15 minutes.

TWA: 88 mg/m<sup>3</sup> 8 hours. TWA: 20 ppm 8 hours.

Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). [Xylenes (all isomers)] Absorbed through skin.

TWA: 100 ppm 8 hours. TWA: 435 mg/m<sup>3</sup> 8 hours. STEL: 150 ppm 15 minutes. STEL: 650 mg/m<sup>3</sup> 15 minutes.

Presidential Decree 307/1986: Occupational exposure limit

Xylene

n-Butyl acetate

Ethylbenzene

Xylene

n-Butyl acetate

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values (Greece, 9/2021). TWA: 50 ppm 8 hours. TWA: 241 mg/m<sup>3</sup> 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m3 15 minutes. Presidential Decree 307/1986: Occupational exposure limit Ethylbenzene values (Greece, 9/2021). TWA: 100 ppm 8 hours. TWA: 435 mg/m<sup>3</sup> 8 hours. STEL: 125 ppm 15 minutes. STEL: 545 mg/m<sup>3</sup> 15 minutes. 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). [xylene, mixture **X**ylene of isomers] Absorbed through skin. TWA: 221 mg/m<sup>3</sup> 8 hours. PEAK: 442 mg/m<sup>3</sup> 15 minutes. PEAK: 100 ppm 15 minutes. TWA: 50 ppm 8 hours. n-Butyl acetate 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Skin sensitiser. Inhalation sensitiser. TWA: 241 mg/m<sup>3</sup> 8 hours. PEAK: 723 mg/m<sup>3</sup> 15 minutes. PEAK: 150 ppm 15 minutes. TWA: 50 ppm 8 hours. Ethylbenzene 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed through skin. Skin sensitiser. Inhalation sensitiser. TWA: 442 mg/m<sup>3</sup> 8 hours. PEAK: 884 mg/m<sup>3</sup> 15 minutes. PEAK: 200 ppm 15 minutes. TWA: 100 ppm 8 hours. Xylene Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). [xylene, all isomers] Absorbed through skin. STEL: 442 mg/m3 15 minutes. STEL: 100 ppm 15 minutes. TWA: 109 mg/m<sup>3</sup> 8 hours. TWA: 25 ppm 8 hours. n-Butyl acetate Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). [butyl acetate, all isomers] TWA: 241 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. STEL: 723 mg/m<sup>3</sup> 15 minutes. STEL: 150 ppm 15 minutes. Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). Ethylbenzene Absorbed through skin. STEL: 884 mg/m<sup>3</sup> 15 minutes. STEL: 200 ppm 15 minutes. TWA: 200 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. Xylene NAOSH (Ireland, 5/2021). [xylene mixed isomers] Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV-8hr: 50 ppm 8 hours. OELV-8hr: 221 mg/m<sup>3</sup> 8 hours. OELV-15min: 100 ppm 15 minutes. OELV-15min: 442 mg/m<sup>3</sup> 15 minutes. NAOSH (Ireland, 5/2021). Notes: EU derived Occupational n-Butyl acetate **Exposure Limit Values** OELV-8hr: 50 ppm 8 hours. OELV-8hr: 241 mg/m<sup>3</sup> 8 hours. OELV-15min: 150 ppm 15 minutes. OELV-15min: 723 mg/m³ 15 minutes. Ethylbenzene NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV-8hr: 100 ppm 8 hours.

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OELV-8hr: 442 mg/m³ 8 hours.
OELV-15min: 200 ppm 15 minutes.

Vegislative in 824 mg/m³ 15 2008. The cree in 82 200

Legislative becree No. 1972008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020). [Xylenes, mixed isomers, pure] Absorbed through skin.

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

n-Butyl acetate EU OEL (Europe, 1/2022). Notes: list of indicative

occupational exposure limit values

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

Ethylbenzene Legislative Decree No. 819/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020).

Absorbed through skin.

8 hours: 100 ppm 8 hours.

8 hours: 442 mg/m³ 8 hours.

Short Term: 200 ppm 15 minutes.

Short Term: 884 mg/m³ 15 minutes.

Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).

[Xylenes] Absorbed through skin.

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

n-Butyl acetate | Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).

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

Ethylbenzene Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).

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

Kylene Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). [xylene, mixed isomers, pure] Absorbed through skin.

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

n-Butyl acetate Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).

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

Ethylbenzene Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).

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

Wylene

Grand-Duchy Regulation 2016. Chemical agents. Annex I
(Luxembourg, 3/2021). [xylenes, mixed isomers, pure]
Absorbed through skin.

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

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Xylene

Grand-Duchy Regulation 2016. Chemical agents. Annex I n-Butyl acetate (Luxembourg, 3/2021). STEL: 150 ppm 15 minutes. STEL: 723 mg/m3 15 minutes. TWA: 50 ppm 8 hours. TWA: 241 mg/m<sup>3</sup> 8 hours. Ethylbenzene Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). Absorbed through skin. TWA: 100 ppm 8 hours. TWA: 442 mg/m<sup>3</sup> 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m<sup>3</sup> 15 minutes. **X**ylene EU OEL (Europe, 1/2022). [xylene, mixed isomers pure] Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 50 ppm 8 hours. TWA: 221 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m<sup>3</sup> 15 minutes. EU OEL (Europe, 1/2022). Notes: list of indicative n-Butyl acetate occupational exposure limit values STEL: 150 ppm 15 minutes. STEL: 723 mg/m3 15 minutes. TWA: 241 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list Ethylbenzene of indicative occupational exposure limit values TWA: 100 ppm 8 hours. TWA: 442 mg/m<sup>3</sup> 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m<sup>3</sup> 15 minutes. Xylene Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). [xylenes (all isomers)] Absorbed through skin. OEL, 8-h TWA: 210 mg/m<sup>3</sup> 8 hours. STEL,15-min: 442 mg/m<sup>3</sup> 15 minutes. STEL,15-min: 100 ppm 15 minutes. OEL, 8-h TWA: 47.5 ppm 8 hours. Ministry of Social Affairs and Employment, Legal limit values n-Butyl acetate (Netherlands, 12/2022). OEL, 8-h TWA: 241 mg/m<sup>3</sup> 8 hours. STEL,15-min: 723 mg/m<sup>3</sup> 15 minutes. STEL,15-min: 150 ppm 15 minutes. OEL, 8-h TWA: 50 ppm 8 hours. Ministry of Social Affairs and Employment, Legal limit values Ethylbenzene (Netherlands, 12/2022). Absorbed through skin. OEL, 8-h TWA: 215 mg/m<sup>3</sup> 8 hours. STEL,15-min: 430 mg/m<sup>3</sup> 15 minutes. STEL,15-min: 97.3 ppm 15 minutes. OEL, 8-h TWA: 48.6 ppm 8 hours. Xylene FOR-2011-12-06-1358 (Norway, 12/2022). [Xylene, all isomers] Absorbed through skin. Notes: indicative limit value TWA: 25 ppm 8 hours. TWA: 108 mg/m<sup>3</sup> 8 hours. n-Butyl acetate FOR-2011-12-06-1358 (Norway, 12/2022). STEL: 723 mg/m<sup>3</sup> 15 minutes. STEL: 150 ppm 15 minutes. FOR-2011-12-06-1358 (Norway, 12/2022). Notes: indicative limit value TWA: 241 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. Ethylbenzene FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through skin. Carcinogen. Notes: indicative limit value

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Xylene

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

Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). [xylene – mixed isomers (1,2-, 1,3-, 1,4-)] Absorbed through skin.

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

Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021).

TWA: 240 mg/m³ 8 hours. STEL: 720 mg/m³ 15 minutes.

Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). Absorbed through skin.

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

Portuguese Institute of Quality (Portugal, 11/2014). [Xylene]

TWA: 100 ppm 8 hours. STEL: 150 ppm 15 minutes.

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

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

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

TWA: 20 ppm 8 hours.

HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). [Xylene] Absorbed through skin.

VLA: 221 mg/m³ 8 hours. VLA: 50 ppm 8 hours.

Short term: 442 mg/m³ 15 minutes. Short term: 100 ppm 15 minutes.

HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021).

VLA: 241 mg/m³ 8 hours. VLA: 50 ppm 8 hours.

Short term: 723 mg/m³ 15 minutes. Short term: 150 ppm 15 minutes.

HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). Absorbed through skin.

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

Short term: 884 mg/m³ 15 minutes. Short term: 200 ppm 15 minutes.

Government regulation SR c. 355/2006 (Slovakia, 9/2020). [xylene, mixed isomers] Absorbed through skin.

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

Government regulation SR c. 355/2006 (Slovakia, 9/2020). [Butyl acetates]

TWA: 241 mg/m³, (Butyl acetates) 8 hours. TWA: 50 ppm, (Butyl acetates) 8 hours.

STEL: 723 mg/m³, (Butyl acetates) 15 minutes. STEL: 150 ppm, (Butyl acetates) 15 minutes.

Government regulation SR c. 355/2006 (Slovakia, 9/2020).

Ethylbenzene

n-Butyl acetate

Xylene

n-Butyl acetate

Ethylbenzene

Xylene

n-Butyl acetate

Ethylbenzene

Xylene

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Ethylbenzene

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Absorbed through skin. TWA: 442 mg/m<sup>3</sup> 8 hours. TWA: 100 ppm 8 hours. STEL: 884 mg/m<sup>3</sup> 15 minutes. STEL: 200 ppm 15 minutes. Xylene Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). [xylene (mixture of isomers)] Absorbed through skin. TWA: 221 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. KTV: 442 mg/m³, 4 times per shift, 15 minutes. KTV: 100 ppm, 4 times per shift, 15 minutes. Regulation on protection of workers from the risks related to n-Butyl acetate exposure to chemical substances at work (Slovenia, 5/2021). TWA: 241 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. KTV: 723 mg/m³, 4 times per shift, 15 minutes. KTV: 150 ppm, 4 times per shift, 15 minutes. Regulation on protection of workers from the risks related to Ethylbenzene exposure to chemical substances at work (Slovenia, 5/2021). Absorbed through skin. TWA: 442 mg/m<sup>3</sup> 8 hours. TWA: 100 ppm 8 hours. KTV: 884 mg/m<sup>3</sup>, 4 times per shift, 15 minutes. KTV: 200 ppm, 4 times per shift, 15 minutes. Xylene National institute of occupational safety and health (Spain, 4/2022). [Xylene, mixture of isomers] Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 221 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m<sup>3</sup> 15 minutes. n-Butyl acetate National institute of occupational safety and health (Spain, 4/2022). TWA: 50 ppm 8 hours. TWA: 241 mg/m<sup>3</sup> 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m3 15 minutes. National institute of occupational safety and health (Spain, Ethylbenzene 4/2022). Absorbed through skin. TWA: 100 ppm 8 hours. TWA: 441 mg/m<sup>3</sup> 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m<sup>3</sup> 15 minutes. Xylene Work environment authority Regulation 2018:1 (Sweden, 9/2021). [xylene] Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 221 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 ma/m<sup>3</sup> 15 minutes. Work environment authority Regulation 2018:1 (Sweden, n-Butyl acetate 9/2021). [butyl acetate] TWA: 50 ppm 8 hours. TWA: 241 mg/m<sup>3</sup> 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m3 15 minutes. Ethylbenzene Work environment authority Regulation 2018:1 (Sweden,

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9/2021). Absorbed through skin.

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TWA: 50 ppm 8 hours. TWA: 220 mg/m<sup>3</sup> 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m<sup>3</sup> 15 minutes.

Kylene	SUVA (Switzerland, 1/2023). [Xylenes (all isomers)] Absorbed
Kylerie	through skin.
	TWA: 50 ppm 8 hours.
	TWA: 220 mg/m³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 440 mg/m³ 15 minutes.
n-Butyl acetate	SUVA (Switzerland, 1/2023).
The Butty acctuate	TWA: 50 ppm 8 hours.
	TWA: 240 mg/m³ 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 720 mg/m³ 15 minutes.
Ethylbenzene	SUVA (Switzerland, 1/2023). Absorbed through skin.
Laryte or Lerie	TWA: 50 ppm 8 hours.
	TWA: 220 mg/m³ 8 hours.
	STEL: 50 ppm 15 minutes.
	STEL: 220 mg/m³ 15 minutes.
Kylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-,
Kyleric	p- or mixed isomers] Absorbed through skin.
	STEL: 441 mg/m³ 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 220 mg/m³ 8 hours.
	STEL: 100 ppm 15 minutes.
n-Butyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020).
2 a.y. a 2 a.a.	STEL: 966 mg/m <sup>3</sup> 15 minutes.
	STEL: 200 ppm 15 minutes.
	TWA: 724 mg/m³ 8 hours.
	TWA: 150 ppm 8 hours.
Ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 552 mg/m³ 15 minutes.
	STEL: 125 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
	TWA: 441 mg/m³ 8 hours.
Cyclohexanone	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 20 ppm 15 minutes.
	TWA: 10 ppm 8 hours.
	STEL: 82 mg/m³ 15 minutes.
	TWA: 41 mg/m³ 8 hours.
1,2,4-trimethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	[trimethylbenzenes, all isomers or mixtures]
	TWA: 25 ppm 8 hours.
	TWA: 125 mg/m³ 8 hours.

## **Biological exposure indices**

Product/ingredient name	Exposure indices				
<b>K</b> ylene	VGU BEI (Austria, 9/2020) [xylenes] 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.					
Ethylbenzene	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021) Notes: significant skin resorption possible  BLV: 2000 mg/g creatinine, mandelic acid and phenylglyoxylic acid – in total [in urine]. Sampling time: after the end of the exposure or the end of the work shift.				

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#### Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018) [xylene]

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

BEI: 14.13 µmol/l, xylene [in blood]. Sampling time: at the end of the work shift.

BEI: 0.88 mol/mol creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift.

BEI: 1.5 g/g creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift.

Ethylbenzene

#### Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018)

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

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.



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

Biological limit values: 820 umol/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.



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

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

No exposure indices known.



DFG BEI-values list (Germany, 7/2022) [Xylene (all isomers)] Notes: danger from percutaneous absorption (see p. 211 and p. 228).

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

TRGS 903 - BEI Values (Germany, 2/2022) [Xylene (all isomers)] BEI: 2000 mg/l, methylhippuric acid [in urine]. Sampling time: end of exposure or end of shift.

Ethylbenzene

DFG BEI-values list (Germany, 7/2022) Notes: danger from percutaneous absorption (see p. 211 and p. 228).

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BEI: 250 mg/g creatinine, mandelic acid plus phenyl glyoxylic acid

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

#### TRGS 903 - BEI Values (Germany, 2/2022)

BEI: 250 mg/g creatinine, mandelic acid plus phenylglyoxylic acid [in urine]. Sampling time: end of exposure or end of shift.

No exposure indices known.

**X**ylene

Ethylbenzene

No exposure indices known.

Xylene

Ethylbenzene

No exposure indices known.

**X**ylene

Ethylbenzene

#### 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022) [xylene]

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, 12/2022)

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 (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 (Ireland, 1/2011)

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.

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

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

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

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

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Xylene

Ethylbenzene

Xylene

Ethylbenzene

Xylene

Ethylbenzene

## HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2020) [Xylene]

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

## HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2020)

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

## Government regulation SR c. 355/2006 (Slovakia, 9/2020) [xylene, all isomers]

BLV: 781 µmol/mmol creatinine, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift.

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

BLV: 10355 µmol/l, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 14.6 µmol/l, xylene [in blood]. Sampling time: at the end of exposure or work shift.

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

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

#### Government regulation SR c. 355/2006 (Slovakia, 9/2020)

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

BLV: 98.6 µmol/l, 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, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

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

# Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) [xylene (all isomers)]

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

## Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021)

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

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**X**ylene National institute of occupational safety and health (Spain, 4/2022) [Xylenes] VLB: 1 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift. National institute of occupational safety and health (Spain, Ethylbenzene 4/2022) VLB: 700 mg/g creatinine, sum of mandelic acid and acid and phenylglyoxylic acid [in urine]. Sampling time: end of workweek. No exposure indices known. Xylene SUVA (Switzerland, 1/2023) [Xylene, all isomers] BEI: 2 g/l, methyl hippuric acid [in urine]. Sampling time: immediately after exposure or after working hours. Ethylbenzene SUVA (Switzerland, 1/2023) 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), 8/2018) [Xylene, o-, m-, p- or mixed isomers] BGV: 650 mmol/mol creatinine, methyl hippuric acid [in urine]. Sampling time: post shift. EH40/2005 BMGVs (United Kingdom (UK), 8/2018) Cyclohexanone BGV: 2 mmol/mol creatinine, cyclohexanol [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	Type	Exposure	Value	Population	Effects
<b>X</b> ylene	DNEL	Long term	65.3 mg/m <sup>3</sup>	General	Local
		Inhalation		population	
	DNEL	Short term	260 mg/m <sup>3</sup>	General	Local
		Inhalation		population	
	DNEL	Short term	260 mg/m <sup>3</sup>	General	Systemic
		Inhalation		population	
	DNEL	Long term	221 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DNEL	Long term Oral	12.5 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term	65.3 mg/m <sup>3</sup>		Systemic
		Inhalation		population	
	DNEL	Long term Dermal	125 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	212 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term	221 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			
	DNEL	Short term	442 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DNEL	Short term	442 mg/m <sup>3</sup>	Workers	Systemic
	5.15	Inhalation			
n-Butyl acetate	DNEL	Short term Oral	2 mg/kg	General	Systemic
			bw/day	population	

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#### SECTION 8: Exposure controls/personal protection DNEL Long term Oral 2 mg/kg General Systemic bw/dav population **DNEL** Short term Dermal 6 mg/kg General Systemic bw/day population **DNEL** Short term Dermal 11 mg/kg Workers Systemic bw/day **DNEL** Long term 35.7 mg/m<sup>3</sup> Local General Inhalation population **DNEL** 300 mg/m<sup>3</sup> Local Short term General Inhalation population **DNEL** Short term 300 mg/m<sup>3</sup> Systemic General Inhalation population 300 mg/m<sup>3</sup> DNEL Long term Workers Local Inhalation **DNEL** 600 mg/m<sup>3</sup> Workers Local Short term Inhalation 600 mg/m<sup>3</sup> **DNEL** Workers Systemic Short term Inhalation **DNEL** Long term Dermal 3.4 mg/kg General Systemic bw/day population DNEL Long term Dermal 7 mg/kg Workers Systemic bw/dav DNEL Long term 12 mg/m<sup>3</sup> General Systemic Inhalation population **DNEL** Long term 48 mg/m<sup>3</sup> Workers Systemic Inhalation Ethylbenzene DNEL Long term Oral 1.6 mg/kg General Systemic bw/day population DNEL Long term 15 mg/m<sup>3</sup> General Systemic Inhalation population **DNEL** Long term 77 mg/m<sup>3</sup> Workers Systemic Inhalation **DNEL** Long term Dermal 180 mg/kg Workers Systemic bw/day **DNEL** Short term 293 mg/m<sup>3</sup> Workers Local Inhalation 442 mg/m<sup>3</sup> **DMEL** Long term Workers Local Inhalation 884 mg/m<sup>3</sup> **DMEL** Workers Short term Systemic Inhalation Trizinc bis(orthophosphate) **DNEL** Long term Oral 0.83 mg/ General Systemic kg bw/day population **DNEL** Long term 2.5 mg/m<sup>3</sup> General Systemic Inhalation population **DNEL** Long term 5 mg/m<sup>3</sup> Workers Systemic Inhalation **DNEL** Long term Dermal 83 mg/kg General Systemic bw/day population 83 mg/kg Workers **DNEL** Long term Dermal Systemic bw/day

**PNECs** 

Zinc oxide

No PNECs available

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**DNEL** 

DNEL

**DNEL** 

**DNEL** 

**DNEL** 

**DNEL** 

Long term

Inhalation

Long term

Inhalation

Long term

Inhalation

Long term Dermal

Long term Dermal

Long term Oral

0.5 mg/m<sup>3</sup>

0.83 mg/

kg bw/day

2.5 mg/m3

5 mg/m<sup>3</sup>

83 mg/kg

83 mg/kg

bw/day

bw/day

Workers

General

General

Workers

General

Workers

population

population

population

Local

Systemic

Systemic

Systemic

Systemic

Systemic

#### 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.

## Skin protection Hand protection

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

Recommendations: Wear suitable gloves tested to EN374.

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

1 - 4 hours (breakthrough time): polyvinyl alcohol (PVA) thickness > 0.3 mm or

4H / Silver Shield® gloves.

> 8 hours (breakthrough time): Viton® thickness > 0.3 mm gloves Wash hands before breaks and immediately after handling the product.

#### **Body protection**

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

#### Other skin protection

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

#### Respiratory protection

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

Filter type: A

Filter type (spray application): A P

## **Environmental exposure** controls

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

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## **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 : Slight **Odour** 

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

Initial boiling point and

boiling range

Ingredient name	°C	°F	Method
p-Butyl acetate	126	258.8	OECD 103
Ethylbenzene	136.1	277	OECD 104

**Flammability** : Not available.

Lower and upper explosion : Lower: 0.8% (xylene)

Upper: 7.6% (n-butyl acetate) limit Flash point : Closed cup: 24°C (75.2°F)

**Auto-ignition temperature** 

Ingredient name	°C	°F	Method
Butyl acetate	415	779	EU A.15
Xylene	432	809.6	

**Decomposition temperature** : Not available. pН Not applicable. **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		Va	pour pressu	re at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
p-Butyl acetate	11.25096	1.5	DIN EN 13016-2			
Ethylbenzene	9.30076	1.2				

**Relative density** : Not available. : 1.3 g/cm<sup>3</sup> **Density** Vapour density : Not available. : Not available. **Explosive properties** : Not available. **Oxidising properties** 

**Particle characteristics** 

**Median particle size** : Not applicable.

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## **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	Species	Dose	Exposure
<b>X</b> ylene	LC50 Inhalation Vapour	Rat	21.7 mg/l	4 hours
•	LD50 Oral	Rat	4300 mg/kg	-
n-Butyl acetate	LC50 Inhalation Vapour	Rat	0.74 mg/l	4 hours
-	LD50 Dermal	Rabbit	14112 mg/kg	-
	LD50 Oral	Rat	10760 mg/kg	-
Ethylbenzene	LC50 Inhalation Dusts and mists	Rat	29000 mg/l	4 hours
	LD50 Dermal LD50 Oral	Rabbit Rat	15400 mg/kg 3500 mg/kg	-

Conclusion/Summary

: Based on available data, the classification criteria are not met.

#### **Acute toxicity estimates**

Route	ATE value	
	6175.66 mg/kg 50.64 mg/l	

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Xylene	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
				mg	
	Skin - Mild irritant	Rat	-	8 hours 60 uL	-
	Skin - Moderate irritant	Rabbit	-	100 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300	-
				ug I	
n-Butyl acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15	-
				mg	
Zinc oxide	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	

**Conclusion/Summary** 

: Causes skin irritation.

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## SECTION 11: Toxicological information

**Sensitisation** 

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

**Mutagenicity** 

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

**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.

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

**Reproductive toxicity** 

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

**Teratogenicity** 

: Based on available data, the classification criteria are not met. **Conclusion/Summary** 

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Xylene	Category 3		Respiratory tract irritation
n-Butyl acetate	Category 3		Narcotic effects

#### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Xylene	Category 2	oral, inhalation oral, inhalation	-
Ethylbenzene	Category 2		hearing organs

#### **Aspiration hazard**

Product/ingredient name	Result
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 irritation.

: No known significant effects or critical hazards. Inhalation

Skin contact : Causes skin irritation.

: No known significant effects or critical hazards. Ingestion

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

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

pain or irritation watering redness

: No specific data. Inhalation

Skin contact Adverse symptoms may include the following:

> irritation redness

Ingestion : No specific data.

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

Short term exposure

**Potential immediate** : Not available.

effects

Potential delayed effects : Not available.

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## **SECTION 11: Toxicological information**

#### **Long term exposure**

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

#### Potential chronic health effects

Not available.

**Conclusion/Summary**: Not available.

**General**: May cause damage to organs through prolonged or repeated exposure.

Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Reproductive toxicity : No known significant effects or critical hazards.

#### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

## **SECTION 12: Ecological information**

## 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
manium dioxide	Acute LC50 3 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 6.5 mg/l Fresh water	Daphnia - <i>Daphnia pulex</i> - Neonate	48 hours
	Acute LC50 >1000000 μg/l Marine water	Fish - Fundulus heteroclitus	96 hours
n-Butyl acetate	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
	Acute LC50 18000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Trizinc bis(orthophosphate)	Acute EC50 0.32 mg/l	Algae - Selenastrum capricornutum	72 hours
	Acute EC50 0.96 mg/l	Crustaceans - Ceriodaphnia dubia	48 hours
Zinc oxide	Acute IC50 46 μg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
	Acute IC50 1.85 mg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute LC50 98 μg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 1.1 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours

**Conclusion/Summary**: Toxic to aquatic life with long lasting effects.

#### 12.2 Persistence and degradability

**Conclusion/Summary**: This product has not been tested for biodegradation.

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
	3.12	8.1 to 25.9	Low
n-Butyl acetate	2.3	-	Low
Ethylbenzene	3.6	-	Low
Trizinc bis(orthophosphate)	-	60960	High
Zinc oxide	-	28960	High

#### 12.4 Mobility in soil

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## **SECTION 12: Ecological information**

Soil/water partition coefficient (Koc)

: Not available.

**Mobility** : Not available.

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### 12.6 Endocrine disrupting properties

Not available.

#### 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.

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

**Packaging** 

**Methods of disposal** 

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

**Special precautions** 

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

## **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT (trizinc bis (orthophosphate), zinc oxide)	PAINT
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

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## **SECTION 14: Transport information**

#### **Additional information**

ADR/RID

: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

Tunnel code (D/E)

**ADN** : The environmentally hazardous substance mark is not required when transported in

sizes of ≤5 L or ≤5 kg.

**IMDG** : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

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

transportation regulations.

user

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]
EKNODUR COMBI 770-500	≥90	3

Labelling

Other EU regulations

**Industrial emissions** : Not listed

(integrated pollution prevention and control) -

Air

**Industrial emissions** : Not listed

(integrated pollution prevention and control) -

Water

: Not applicable. **Explosive precursors** Ozone depleting substances (1005/2009/EU)

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** 

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## **SECTION 15: Regulatory information**

**Category** 

P5c E2

#### **National regulations**

**Austria** 

VbF class : A II

Very dangerous flammable liquid.

Limitation of the use of organic solvents

: Permitted.

**3**-6

Czech Republic

Storage code : II

**Denmark** 

Danish fire class : II-1 Executive Order No. 1795/2015

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

MAL-code :

**Protection based on MAL** 

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

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

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

MAL-code: 3-6

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

- Protective clothing must be worn.

During downtimes, cleaning and repair in closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents. When using scraper or knife, brush, roller, etc, for pre- and post-treatments in cabins or booths of the existing\* facility type, if the operator is inside the spray zone. When using scraper or knife, brush, roller, etc. for pre- and post-treatments outside a closed facility, spray booth or spray cabin.

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

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

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

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

Air-supplied full mask and protective clothing must be worn.

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## SECTION 15: Regulatory information

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

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

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

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

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

\*See Regulations.

Restrictions on use : Not to be used by professional users below 18 years of age. See the National

Working Environment Authorities Executive Order regarding Young People At Work.

List of undesirable substances

: Not listed

Carcinogenic waste : Waste containers must be labeled: Contains a substance or substances regulated

by Danish working environment legislation on cancer risks.

**Finland** 

**France** 

**Social Security Code,** : Xylene RG 4bis, RG 84

Articles L 461-1 to L 461-7 n-Butyl acetate **RG 84** 

**RG 84** Ethylbenzene

**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
E2	1.3.2

: 2 Hazard class for water

**7**A-Luft Number 5.2.5: 32.8% **Technical instruction on** 

TA-Luft Class I - Number 5.2.5: 3.9% air quality control

TA-Luft Class II - Number 5.2.7.1.1: 0.4%

Italy

D.Lgs. 152/06 : Not determined.

**Netherlands** 

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

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## **SECTION 15: Regulatory information**

Ingredient name	Carcinogen	Mutagen	Reproductive toxicity - Fertility	Reproductive toxicity - Development	Harmful via breastfeeding
xylene	-	-	-	Development 2	-
Naphtha (petroleum), hydrodesulfurized	Listed	Listed	-	-	-
heavy					
Naphtha (petroleum), hydrotreated heavy	Listed	Listed	-	-	-

**Water Discharge Policy** 

(ABM)

: Z(1) Non biodegradable substances with hazardous properties for humans and the environment (carcinogenicity/ mutagenicity/ reprotoxicity/ bioacumulative potential/

toxicity or persistence). Decontamination effort: Z

**Norway** 

**Sweden** 

Flammable liquid class : 2a

(SRVFS 2005:10)

**Switzerland** 

**VOC content** : **V**OC (w/w): 35.9%

**International regulations** 

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

Not listed.

#### **Montreal Protocol**

Not listed.

**Stockholm Convention on Persistent Organic Pollutants** 

Not listed.

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

Not listed.

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

Not listed.

15.2 Chemical safety

assessment

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

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

Indicates information that has changed from previously issued version.

**Abbreviations and** 

acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

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

EUH statement = CLP-specific Hazard statement

N/A = Not available

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

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
STOT RE 2, H373	Calculation method
Aquatic Chronic 2, H411	Calculation method

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

#### 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.
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.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

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

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Carc. 2	CARCINOGENICITY - Category 2
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
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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**Version** 

#### **Notice to reader**

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

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