Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

# **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 : TE

: TEKNODUR COMBI 770-500 - All variants

**1.2 Relevant identified uses of the substance or mixture and uses advised againstProduct 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	<ul> <li>H226 - Flammable liquid and vapour.</li> <li>H315 - Causes skin irritation.</li> <li>H319 - Causes serious eye irritation.</li> <li>H373 - May cause damage to organs through prolonged or repeated exposure.</li> <li>H411 - Toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statements	
Prevention	<ul> <li>P280 - Wear protective gloves. Wear eye or face protection.</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P273 - Avoid release to the environment.</li> <li>P260 - Do not breathe vapour.</li> </ul>
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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	: 🖉 ontains: Xylene
Supplemental label elements	: 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

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Yylene	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]

SECTION 3: Composition/information on ingredients						
Zinc oxide	REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	≤3	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[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.

Туре

[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  $\leq$  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/sy	<u>ymptoms</u>
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	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>		
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	fron	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, pro	ote	ctive 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	со	ontainment 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

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contractor.

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

Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. 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

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

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7.3 Specific end use(s)

: Not available.

Recommendations Industrial sector specific solutions

- : Not available.

## **SECTION 8: Exposure controls/personal protection**

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

## 8.1 Control parameters

**Occupational exposure limits** 

Product/ingredient name	Exposure limit values
Xylene	Regulation on Limit Values - MAC (Austria, 4/2021). [Xylenes
	(all isomers)]
	PEAK: 442 mg/m <sup>3</sup> , 4 times per shift, 15 minutes.
	TWA: 50 ppm 8 hours.
	PEAK: 100 ppm, 4 times per shift, 15 minutes.
a Putul acatata	TWA: 221 mg/m <sup>3</sup> 8 hours. Regulation on Limit Values - MAC (Austria, 4/2021). [Butyl
n-Butyl acetate	acetate (all isomers except tert-butyl acetate)]
	CEIL: 480 mg/m <sup>3</sup> 15 minutes.
	CEIL: 100 ppm 15 minutes.
	TWA: 241 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
Ethylbenzene	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed
	through skin.
	TWA: 100 ppm 8 hours.
	TWA: 440 mg/m <sup>3</sup> 8 hours.
	CEIL: 200 ppm, 8 times per shift, 5 minutes.
	CEIL: 880 mg/m <sup>3</sup> , 8 times per shift, 5 minutes.
Kylene	Limit values (Belgium, 5/2021). [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 mg/m <sup>3</sup> 15 minutes.
n-Butyl acetate	Limit values (Belgium, 5/2021). [butyl acetate, all isomers]
	STEL: 712 mg/m <sup>3</sup> 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 238 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
Ethylbenzene	Limit values (Belgium, 5/2021). Absorbed through skin.
	TWA: 20 ppm 8 hours.
	TWA: 87 mg/m <sup>3</sup> 8 hours.
	STEL: 125 ppm 15 minutes.
	STEL: 551 mg/m <sup>3</sup> 15 minutes.
Xylene	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/m <sup>3</sup> 8 hours.
	Limit value 15 min: 442 mg/m <sup>3</sup> 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/m <sup>3</sup> 8 hours.
	Limit value 15 min: 723 mg/m³ 15 minutes.
	Limit value 15 min: 150 ppm 15 minutes.
	Limit value 8 hours: 50 ppm 8 hours.
Ethylbenzene	Ministry of Labour and Social Policy and the Ministry of
	Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed
	through skin.
	Limit value 8 hours: 435 mg/m <sup>3</sup> 8 hours.
	Limit value 15 min: 545 mg/m³ 15 minutes.

# SECTION 8: Exposure controls/personal protection

<b>X</b> done	Ministry of Economy, Labour and Entrepreneurship ELV/
<b>X</b> ylene	Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). [xylene (all isomers)] Absorbed
	through skin.
	STELV: 442 mg/m <sup>3</sup> 15 minutes. STELV: 100 ppm 15 minutes.
	ELV: 221 mg/m <sup>3</sup> 8 hours.
	ELV: 50 ppm 8 hours.
n-Butyl acetate	Ministry of Economy, Labour and Entrepreneurship ELV/
	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.
<b>X</b> ylene	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.
n-Butyl acetate	Department of labour inspection (Cyprus, 7/2021).
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m <sup>3</sup> 15 minutes.
	TWA: 50 ppm 8 hours. TWA: 241 mg/m <sup>3</sup> 8 hours.
Ethylbenzene	Department of labour inspection (Cyprus, 7/2021). Absorbed
	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.
<b>▼</b> ylene	Government regulation of Czech Republic PEL/NPK-P (Czech
Kylene	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.
n-Butyl acetate	Government regulation of Czech Republic PEL/NPK-P (Czech
	Republic, 10/2022).
	TWA: 241 mg/m <sup>3</sup> 8 hours.
	STEL: 723 mg/m <sup>3</sup> 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/m³ 15 minutes. STEL: 113.5 ppm 15 minutes.
Milana	
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.
n-Butyl acetate	STEL: 100 ppm 15 minutes. Working Environment Authority (Denmark, 6/2022). [Butyl
n-Butyl acetate	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.
thylbenzene	Working Environment Authority (Denmark, 6/2022). Absorbe
	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.
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.
-Butyl acetate	Occupational exposure limits, Regulation No. 293 (Estonia,
-	12/2022).
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m <sup>3</sup> 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m <sup>3</sup> 8 hours.
thylbenzene	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.
ylene	EU OEL (Europe, 1/2022). [xylene, mixed isomers pure]
	Absorbed through skin. Notes: list of indicative occupation
	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.
-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.
thylbenzene	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: lis
-	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.
ylene	Institute of Occupational Health, Ministry of Social Affairs
yierie	(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.
Putul apotato	STEL: 100 ppm 15 minutes. Institute of Occupational Health, Ministry of Social Affairs
-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/m <sup>3</sup> 15 minutes.
thylbenzene	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021). Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 220 mg/m <sup>3</sup> 8 hours.

ECTION 8: Exposure	controls/personal protection
	STEL: 200 ppm 15 minutes.
Xylene	STEL: 880 mg/m <sup>3</sup> 15 minutes. <b>Ministry of Labor (France, 10/2022). [xylenes, mixed isomers,</b> <b>pure] Absorbed through skin. Notes: Binding regulatory limit</b> <b>values (article R. 4412-149 of the Labor Code)</b> STEL: 442 mg/m <sup>3</sup> 15 minutes.
n Rutul acostata	STEL: 100 ppm 15 minutes. TWA: 221 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.
n-Butyl acetate	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.
Ethylbenzene	STEL: 723 mg/m <sup>3</sup> 15 minutes. <b>Ministry of Labor (France, 10/2022). Absorbed through skin.</b> <b>Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)</b> 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.
<b>⊠</b> ylene	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. <b>DFG MAC-values list (Germany, 7/2022). [Xylene (all isomers)]</b> <b>Absorbed through skin.</b> TWA: 50 ppm 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes. TWA: 220 mg/m <sup>3</sup> 8 hours.
n-Butyl acetate	<ul> <li>PEAK: 440 mg/m<sup>3</sup>, 4 times per shift, 15 minutes.</li> <li>DFG MAC-values list (Germany, 7/2022).</li> <li>TWA: 100 ppm 8 hours.</li> <li>PEAK: 200 ppm, 4 times per shift, 15 minutes.</li> <li>TWA: 480 mg/m<sup>3</sup> 8 hours.</li> <li>PEAK: 960 mg/m<sup>3</sup>, 4 times per shift, 15 minutes.</li> <li>TRGS 900 OEL (Germany, 6/2022).</li> <li>TWA: 300 mg/m<sup>3</sup> 8 hours.</li> <li>TWA: 62 ppm 8 hours.</li> <li>PEAK: 600 mg/m<sup>3</sup> 15 minutes.</li> <li>PEAK: 124 ppm 15 minutes.</li> </ul>
Ethylbenzene	<ul> <li>TRGS 900 OEL (Germany, 6/2022). Absorbed through skin. TWA: 88 mg/m<sup>3</sup> 8 hours. PEAK: 176 mg/m<sup>3</sup> 15 minutes. TWA: 20 ppm 8 hours. PEAK: 40 ppm 15 minutes.</li> <li>DFG MAC-values list (Germany, 7/2022). Absorbed through skin. PEAK: 40 ppm, 4 times per shift, 15 minutes. PEAK: 40 ppm, 4 times per shift, 15 minutes. TWA: 88 mg/m<sup>3</sup> 8 hours. TWA: 88 mg/m<sup>3</sup> 8 hours. TWA: 20 ppm 8 hours.</li> </ul>
₩ylene	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.
n-Butyl acetate	STEL: 650 mg/m <sup>3</sup> 15 minutes. Presidential Decree 307/1986: Occupational exposure limit

#### SECTION 8: Exposure controls/personal protection 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/m<sup>3</sup> 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. **X**ylene Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). [xylene, all isomers] Absorbed through skin. STEL: 442 mg/m<sup>3</sup> 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. **X**ylene 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/m<sup>3</sup> 15 minutes. Ethylbenzene NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV-8hr: 100 ppm 8 hours. Date of issue/Date of revision 10/32 : 19/09/2024

TEKNODUR COMBI 770-500 - All variants

Date of previous issue

Vene         DELV-15min: 200 <sup>2</sup> ppm 15 minutes.           LQBLMATOP Do 200 ppm 15 minutes.         LQBLMATOP Do 200 ppm 15 minutes.           LB ours: 50 ppm 8 hours.         8 hours: 50 ppm 8 hours.           B hours: 50 ppm 8 hours.         8 hours: 52 mg/m <sup>2</sup> 8 hours.           B-Butyl acetate         EU OEL (curpop. 1/2022). Notes: list of indicative occupational exposure limit values           -Butyl acetate         EU OEL (curpop. 1/2022). Notes: list of indicative occupational exposure limit values           stTEL: 150 ppm 15 minutes.         STEL: 723 mg/m <sup>2</sup> 15 minutes.           TWA: 241 mg/m <sup>2</sup> 15 minutes.         STEL: 723 mg/m <sup>2</sup> 15 minutes.           TWA: 50 ppm 8 hours.         8 hours: 422 mg/m <sup>2</sup> 15 minutes.           TWA: 241 mg/m <sup>2</sup> 15 minutes.         TWA: 50 ppm 8 hours.           B hours: 100 ppm 15 minutes.         Short Term: 804 mg/m <sup>2</sup> 15 minutes.           Short Term: 804 mg/m <sup>2</sup> 15 minutes.         Short Term: 804 mg/m <sup>2</sup> 15 minutes.           Short Term: 804 mg/m <sup>2</sup> 16 minutes.         TWA: 25 opm 8 hours.           Short Term: 804 mg/m <sup>2</sup> 16 minutes.         TWA: 20 ppm 15 minutes.           STEL: 150 ppm 15 minutes.         TWA: 24 mg/m <sup>2</sup> 16 minutes.           STEL: 142 mg/m <sup>2</sup> 16 minutes.         TWA: 25 opm 8 hours.           STEL: 150 ppm 15 minutes.         STEL: 160 ppm 15 minutes.           STEL: 160 ppm 15 minutes.         STEL: 422 mg/m <sup>2</sup> 15 minutes.		OELV-8hr: 442 mg/m <sup>3</sup> 8 hours.
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STEL: 100 ppm 15 minutes.		
STEL: 442 mg/m <sup>3</sup> 15 minutes.		

#### SECTION 8: Exposure controls/personal protection 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/m<sup>3</sup> 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. **X**ylene 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. **X**ylene 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. FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through skin. Carcinogen. Notes: indicative limit value

Date of issue/Date of revision

TEKNODUR COMBI 770-500 - All variants

Ethylbenzene

: 19/09/2024 Date of previous issue

#### SECTION 8: Exposure controls/personal protection TWA: 5 ppm 8 hours. TWA: 20 mg/m<sup>3</sup> 8 hours. **X**ylene 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/m<sup>3</sup> 8 hours. STEL: 200 mg/m<sup>3</sup> 15 minutes. Regulation of the Minister of Family, Labor and Social Policy n-Butyl acetate 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/m<sup>3</sup> 8 hours. STEL: 720 mg/m<sup>3</sup> 15 minutes. Ethylbenzene 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/m<sup>3</sup> 8 hours. STEL: 400 mg/m<sup>3</sup> 15 minutes. **X**ylene Portuguese Institute of Quality (Portugal, 11/2014). [Xylene] TWA: 100 ppm 8 hours. STEL: 150 ppm 15 minutes. n-Butyl acetate Portuguese Institute of Quality (Portugal, 11/2014). TWA: 150 ppm 8 hours. STEL: 200 ppm 15 minutes. Ethylbenzene Portuguese Institute of Quality (Portugal, 11/2014). TWA: 20 ppm 8 hours. **X**ylene HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). [Xylene] Absorbed through skin. VLA: 221 mg/m<sup>3</sup> 8 hours. VLA: 50 ppm 8 hours. Short term: 442 mg/m<sup>3</sup> 15 minutes. Short term: 100 ppm 15 minutes. n-Butyl acetate HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). VLA: 241 mg/m<sup>3</sup> 8 hours. VLA: 50 ppm 8 hours. Short term: 723 mg/m<sup>3</sup> 15 minutes. Short term: 150 ppm 15 minutes. HG 1218/2006, Annex 1, with subsequent modifications and Ethylbenzene 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/m<sup>3</sup> 15 minutes. Short term: 200 ppm 15 minutes. **X**ylene Government regulation SR c. 355/2006 (Slovakia, 9/2020). [xylene, mixed isomers] Absorbed through skin. TWA: 221 mg/m<sup>3</sup>, (xylene, mixed isomers) 8 hours. TWA: 50 ppm, (xylene, mixed isomers) 8 hours. STEL: 442 mg/m<sup>3</sup>, (xylene, mixed isomers) 15 minutes. STEL: 100 ppm, (xylene, mixed isomers) 15 minutes. n-Butyl acetate Government regulation SR c. 355/2006 (Slovakia, 9/2020). [Butyl acetates] TWA: 241 mg/m<sup>3</sup>, (Butyl acetates) 8 hours. TWA: 50 ppm, (Butyl acetates) 8 hours. STEL: 723 mg/m<sup>3</sup>, (Butyl acetates) 15 minutes. STEL: 150 ppm, (Butyl acetates) 15 minutes. Government regulation SR c. 355/2006 (Slovakia, 9/2020). Ethylbenzene

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SECTION 8: Exposure controls	/personal protection
	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.
₩ylene	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/m <sup>3</sup> , 4 times per shift, 15 minutes.
n-Butyl acetate	<ul> <li>KTV: 100 ppm, 4 times per shift, 15 minutes.</li> <li>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021).</li> <li>TWA: 241 mg/m<sup>3</sup> 8 hours.</li> <li>TWA: 50 ppm 8 hours.</li> <li>KTV: 723 mg/m<sup>3</sup>, 4 times per shift, 15 minutes.</li> <li>KTV: 150 ppm, 4 times per shift, 15 minutes.</li> </ul>
Ethylbenzene	Regulation on protection of workers from the risks related to 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.
₩ylene	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/m <sup>3</sup> 15 minutes.
Ethylbenzene	National institute of occupational safety and health (Spain, 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.
₩ylene	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.
n-Butyl acetate	STEL: 442 mg/m <sup>3</sup> 15 minutes. Work environment authority Regulation 2018:1 (Sweden, 9/2021). [butyl acetate] TWA: 50 ppm 8 hours. TWA: 241 mg/m <sup>3</sup> 8 hours. STEL: 150 ppm 15 minutes. STEL: 702 mg/m <sup>3</sup> 45 minutes.
Ethylbenzene	STEL: 723 mg/m <sup>3</sup> 15 minutes. <b>Work environment authority Regulation 2018:1 (Sweden,</b> <b>9/2021). Absorbed through skin.</b> 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.
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# SECTION 8: Exposure controls/personal protection

Xylene	SUVA (Switzerland, 1/2023). [Xylenes (all isomers)] Absorbed
-	through skin.
	TWA: 50 ppm 8 hours.
	TWA: 220 mg/m <sup>3</sup> 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 440 mg/m <sup>3</sup> 15 minutes.
n-Butyl acetate	SUVA (Switzerland, 1/2023).
	TWA: 50 ppm 8 hours.
	TWA: 240 mg/m <sup>3</sup> 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 720 mg/m <sup>3</sup> 15 minutes.
Ethylbenzene	SUVA (Switzerland, 1/2023). Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 220 mg/m <sup>3</sup> 8 hours.
	STEL: 50 ppm 15 minutes.
	STEL: 220 mg/m <sup>3</sup> 15 minutes.
<b>X</b> ylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-,
	p- or mixed isomers] Absorbed through skin.
	STEL: 441 mg/m <sup>3</sup> 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 220 mg/m <sup>3</sup> 8 hours.
	STEL: 100 ppm 15 minutes.
n-Butyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 966 mg/m <sup>3</sup> 15 minutes.
	STEL: 200 ppm 15 minutes.
	TWA: 724 mg/m <sup>3</sup> 8 hours.
	TWA: 150 ppm 8 hours.
Ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 552 mg/m <sup>3</sup> 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/m <sup>3</sup> 15 minutes.
	TWA: 41 mg/m <sup>3</sup> 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/m <sup>3</sup> 8 hours.

## **Biological exposure indices**

Product/ingredient name	Exposure indices
Kylene	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.	
₽thylbenzene	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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SECTION 8: Exposure of	controls/p	personal protection
		<ul> <li>Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018) [xylene]</li> <li>BEI: 1.5 mg/l, xylene [in blood]. Sampling time: at the end of the work shift.</li> <li>BEI: 14.13 µmol/l, xylene [in blood]. Sampling time: at the end of the work shift.</li> <li>BEI: 0.88 mol/mol creatinine, methylhippuric acid [in urine].</li> <li>Sampling time: at the end of the work shift.</li> <li>BEI: 1.5 g/g creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift.</li> </ul>
Ethylbenzene		<ul> <li>Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018)</li> <li>BEI: 1.5 mg/l, ethylbenzene [in blood]. Sampling time: during exposure.</li> <li>BEI: 14.1 µmol/l, ethylbenzene [in blood]. Sampling time: during exposure.</li> <li>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.</li> <li>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.</li> </ul>
No exposure indices known.		
<b>∀</b> ylene		Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015) [Xylene] 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.		
₩ylene		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/I, mandelic acid [in urine]. Sampling time: after work shift at the end of the working week or exposure period.
No exposure indices known.		
₩ylene		<ul> <li>DFG BEI-values list (Germany, 7/2022) [Xylene (all isomers)]</li> <li>Notes: danger from percutaneous absorption (see p. 211 and p. 228).</li> <li>BEI: 2000 mg/l, methylhippuric acid (toluric acid) (all isomers) [in urine]. Sampling time: end of exposure or end of shift.</li> <li>TRGS 903 - BEI Values (Germany, 2/2022) [Xylene (all isomers)]</li> <li>BEI: 2000 mg/l, methylhippuric acid [in urine]. Sampling time: end of exposure or end of shift.</li> </ul>
Ethylbenzene		DFG BEI-values list (Germany, 7/2022) Notes: danger from percutaneous absorption (see p. 211 and p. 228). BEI: 250 mg/g creatinine, mandelic acid plus phenyl glyoxylic acid
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<ul> <li>[in urine]. Sampling time: end of exposure or end of shift.</li> <li>TRGS 903 - BEI Values (Germany, 2/2022)</li> <li>BEI: 250 mg/g creatinine, mandelic acid plus phenylglyoxylic acid [in urine]. Sampling time: end of exposure or end of shift.</li> <li>5/2020. (II. 6.) ITM Decree (Hungary, 12/2022) [xylene]</li> <li>BEI: 1500 mg/g creatinine, methylhippuric acid [in urine].</li> <li>Sampling time: at the end of the shift.</li> <li>BEI: 860 µmol/mmol creatinine, methylhippuric acid [in urine].</li> <li>Sampling time: at the end of the shift.</li> <li>5/2020. (II. 6.) ITM Decree (Hungary, 12/2022)</li> <li>BEI: 1500 mg/g creatinine, mandelic acid [in urine].</li> <li>Sampling time: at the end of the shift.</li> <li>5/2020. (II. 6.) ITM Decree (Hungary, 12/2022)</li> <li>BEI: 1500 mg/g creatinine, mandelic acid [in urine]. Sampling time at the end of the working week; at the end of the shift.</li> <li>BEI: 1100 µmol/mmol creatinine, mandelic acid [in urine].</li> <li>Sampling time: at the end of the working week; at the end of the shift.</li> <li>BEI: 1100 µmol/mmol creatinine, mandelic acids [in urine].</li> <li>Sampling time: at the end of the working week; at the end of the shift.</li> <li>NAOSH (Ireland, 1/2011) [Xylene]</li> <li>BMGV: 1.5 g/g creatinine, methylhippuric acids [in urine].</li> <li>Sampling time: end of shift - As soon as possible after exposure ceases.</li> <li>NAOSH (Ireland, 1/2011)</li> <li>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 specific and the orig of the determinant is in question., ethylbenzene [in endexhaled air Sampling time: not critical.</li> <li>BMGV: 0.7 g/g creatinine [Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the guantitative interpretation of the quantitative interpretation of the measurement is ambiguous. These analytes s</li></ul>
<ul> <li>BEI: 1500 mg/g creatinine, methylhippuric acid [in urine].</li> <li>Sampling time: at the end of the shift.</li> <li>BEI: 860 μmol/mmol creatinine, methylhippuric acid [in urine].</li> <li>Sampling time: at the end of the shift.</li> <li><b>5/2020. (II. 6.) ITM Decree (Hungary, 12/2022)</b></li> <li>BEI: 1500 mg/g creatinine, mandelic acid [in urine]. Sampling tim at the end of the working week; at the end of the shift.</li> <li>BEI: 1110 µmol/mmol creatinine, mandelic acid [in urine].</li> <li>Sampling time: at the end of the working week; at the end of the shift.</li> <li>BEI: 1110 µmol/mmol creatinine, mandelic acid [in urine].</li> <li>Sampling time: at the end of the working week; at the end of the shift.</li> <li>NAOSH (Ireland, 1/2011) [Xylene]</li> <li>BMGV: 1.5 g/g creatinine, methylhippuric acids [in urine].</li> <li>Sampling time: end of shift - As soon as possible after exposure ceases.</li> <li>NAOSH (Ireland, 1/2011)</li> <li>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 specific and the orig of the determinant is in question., ethylbenzene [in endexhaled air Sampling time: not critical.</li> <li>BMGV: 0.7 g/g creatinine [Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative test is not specific and the orig of the determinant is in question., ethylbenzene [in endexhaled air Sampling time: not critical.</li> </ul>
<ul> <li>BEI: 1500 mg/g creatinine, methylhippuric acid [in urine].</li> <li>Sampling time: at the end of the shift.</li> <li>BEI: 860 μmol/mmol creatinine, methylhippuric acid [in urine].</li> <li>Sampling time: at the end of the shift.</li> <li><b>5/2020. (II. 6.) ITM Decree (Hungary, 12/2022)</b></li> <li>BEI: 1500 mg/g creatinine, mandelic acid [in urine]. Sampling tim at the end of the working week; at the end of the shift.</li> <li>BEI: 1110 µmol/mmol creatinine, mandelic acid [in urine].</li> <li>Sampling time: at the end of the working week; at the end of the shift.</li> <li>BEI: 1110 µmol/mmol creatinine, mandelic acid [in urine].</li> <li>Sampling time: at the end of the working week; at the end of the shift.</li> <li>NAOSH (Ireland, 1/2011) [Xylene]</li> <li>BMGV: 1.5 g/g creatinine, methylhippuric acids [in urine].</li> <li>Sampling time: end of shift - As soon as possible after exposure ceases.</li> <li>NAOSH (Ireland, 1/2011)</li> <li>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 specific and the orig of the determinant is in question., ethylbenzene [in endexhaled air Sampling time: not critical.</li> <li>BMGV: 0.7 g/g creatinine [Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative test is not specific and the orig of the determinant is in question., ethylbenzene [in endexhaled air Sampling time: not critical.</li> </ul>
<ul> <li>BEI: 1500 mg/g creatinine, mandelic acid [in urine]. Sampling times at the end of the working week; at the end of the shift.</li> <li>BEI: 1110 µmol/mmol creatinine, mandelic acid [in urine].</li> <li>Sampling time: at the end of the working week; at the end of the shift.</li> <li>NAOSH (Ireland, 1/2011) [Xylene]</li> <li>BMGV: 1.5 g/g creatinine, methylhippuric acids [in urine].</li> <li>Sampling time: end of shift - As soon as possible after exposure ceases.</li> <li>NAOSH (Ireland, 1/2011)</li> <li>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 specific and the orig of the determinant is in question., ethylbenzene [in endexhaled air Sampling time: not critical.</li> <li>BMGV: 0.7 g/g creatinine [Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the substance but the quantitative test is not specific and the orig of the determinant is in question., ethylbenzene [in endexhaled air Sampling time: not critical.</li> </ul>
<ul> <li>BMGV: 1.5 g/g creatinine, methylhippuric acids [in urine].</li> <li>Sampling time: end of shift - As soon as possible after exposure ceases.</li> <li>NAOSH (Ireland, 1/2011)</li> <li>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 orig of the determinant is in question., ethylbenzene [in endexhaled air Sampling time: not critical.</li> <li>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 quantitative interpretation of the measurement is ambiguous.</li> </ul>
<ul> <li>BMGV: 1.5 g/g creatinine, methylhippuric acids [in urine].</li> <li>Sampling time: end of shift - As soon as possible after exposure ceases.</li> <li>NAOSH (Ireland, 1/2011)</li> <li>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 orig of the determinant is in question., ethylbenzene [in endexhaled air Sampling time: not critical.</li> <li>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 quantitative interpretation of the measurement is ambiguous.</li> </ul>
<ul> <li>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 orig of the determinant is in question., ethylbenzene [in endexhaled air Sampling time: not critical.</li> <li>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.</li> </ul>
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.
<b>Portuguese Institute of Quality (Portugal, 11/2014) [Xylenes]</b> BEI: 1.5 g/g creatinine, (o, m, p) -methyl-boronic acids [in urine]. Sampling time: end of shift.
<b>Portuguese Institute of Quality (Portugal, 11/2014)</b> BEI: 0.7 g/g creatinine, sum of mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift.

<b>SECTION 8: Exposure</b>	controls/personal protection
Xylene	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 shift.
Ethylbenzene	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.
₩ylene	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.
Ethylbenzene	<ul> <li>Government regulation SR c. 355/2006 (Slovakia, 9/2020)</li> <li>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.</li> <li>BLV: 7.44 μmol/mmol creatinine, 2 or 4-etylfenol [in urine].</li> <li>Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.</li> <li>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.</li> <li>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.</li> <li>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 shift; long-term exposure: after several work shift.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>BLV: 12 mg/l, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shifts.</li> </ul>
▼ylene	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.
Ethylbenzene	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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<b>X</b> 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.
Ethylbenzene	National institute of occupational safety and health (Spain, 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.	
<b>X</b> ylene	<b>SUVA (Switzerland, 1/2023) [Xylene, all isomers]</b> BEI: 2 g/I, methyl hippuric acid [in urine]. Sampling time: immediately after exposure or after working hours.
Ethylbenzene	<b>SUVA (Switzerland, 1/2023)</b> BEI: 600 mg/g creatinine, mandelic acid + phenylglyoxylic acid [ir urine]. Sampling time: immediately after exposure or after working hours.
₩ylene	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.
Cyclohexanone	EH40/2005 BMGVs (United Kingdom (UK), 8/2018) BGV: 2 mmol/mol creatinine, cyclohexanol [in urine]. Sampling time: post shift.
procedures Europ asses value atmos of exp (Worl	ence should be made to monitoring standards, such as the following: bean Standard EN 689 (Workplace atmospheres - Guidance for the ssment of exposure by inhalation to chemical agents for comparison with limit s and measurement strategy) European Standard EN 14042 (Workplace spheres - Guide for the application and use of procedures for the assessmen bosure to chemical and biological agents) European Standard EN 482 (place atmospheres - General requirements for the performance of procedure e measurement of chemical agents) Reference to national guidance

## **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Xylene	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	5	population	
	DNEL	Short term	260 mg/m <sup>3</sup>	General	Systemic
		Inhalation	Ū	population	-
	DNEL	Long term	221 mg/m <sup>3</sup>		Local
		Inhalation	Ū		
	DNEL	Long term Oral	12.5 mg/	General	Systemic
			kg bw/day	population	-
	DNEL	Long term	65.3 mg/m <sup>3</sup>	General	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
		Inhalation			
n-Butyl acetate	DNEL	Short term Oral	2 mg/kg	General	Systemic
			bw/day	population	

required.

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documents for methods for the determination of hazardous substances will also be

	DNEL	Long term Oral	2 mg/kg	General	Systemic
			bw/day	population	,
	DNEL	Short term Dermal	6 mg/kg	General	Systemic
			bw/day	population	,
	DNEL	Short term Dermal	11 mg/kg	Workers	Systemic
	<b>-</b> -		bw/day		,
	DNEL	Long term	35.7 mg/m <sup>3</sup>	General	Local
		Inhalation		population	
	DNEL	Short term	300 mg/m <sup>3</sup>	General	Local
		Inhalation	500 mg/m	population	
	DNEL	Short term	300 mg/m <sup>3</sup>	General	Systemic
		Inhalation	500 mg/m	population	0,0101110
	DNEL	Long term	300 mg/m <sup>3</sup>	Workers	Local
		Inhalation	500 mg/m		
	DNEL	Short term	600 mg/m <sup>3</sup>	Workers	Local
		Inhalation	Soo mg/m		Local
	DNEL	Short term	600 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation	Soo mg/m	**011(613	Cysternic
	DNEL	Long term Dermal	3.4 mg/kg	General	Systemic
	DINEL		bw/day	population	Systemic
	DNEL	Long term Dermal		Workers	Systemic
	DINEL	Long term Dermal	7 mg/kg	VVUIKEIS	Systemic
		Long torm	bw/day	General	Sustamia
	DNEL	Long term	12 mg/m <sup>3</sup>		Systemic
		Inhalation	10	population	Cyntan-!-
	DNEL	Long term	48 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation	1.0	Company	Out the state
Ethylbenzene	DNEL	Long term Oral	1.6 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term	15 mg/m³	General	Systemic
		Inhalation		population	
	DNEL	Long term	77 mg/m³	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			
	DMEL	Long term	442 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DMEL	Short term	884 mg/m <sup>3</sup>	Workers	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/m³	Workers	Systemic
		Inhalation			- ,
	DNEL	Long term Dermal	83 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	83 mg/kg	Workers	Systemic
			bw/day		Cysternic
Zinc oxide	DNEL	Long term	0.5 mg/m <sup>3</sup>	Workers	Local
		Inhalation	5.5 mg/m	**011(613	LUCAI
	DNEL		0.82 mal	General	Systemia
	DINEL	Long term Oral	0.83 mg/		Systemic
		Long torm	kg bw/day	population	Cyntan-i-
	DNEL	Long term	2.5 mg/m <sup>3</sup>	General	Systemic
		Inhalation	<b>F</b>	population	
	DNEL	Long term	5 mg/m³	Workers	Systemic
		Inhalation			
	DNEL	Long term Dermal	83 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	83 mg/kg	Workers	Systemic
		1	bw/day		

## **PNECs**

No PNECs available

# **SECTION 8: Exposure controls/personal protection**

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 meas	<u>ures</u>			
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	<ul> <li>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.</li> </ul>			
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

<u>Appearance</u>	
Physical state	: Liquid.
Colour	: Various
Odour	: Slight
Odour threshold	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and	:
boiling range	

I	ngredient name	°C	°F	Method
r	Butyl acetate	126	258.8	OECD 103
E	Ethylbenzene	136.1	277	OECD 104

FI	lam	ıma	bil	litv

: Not available.

Lower and upper explosion limit : Wwer: 0.8% (xylene) Upper: 7.6% (n-butyl acetate)

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Flash point

: Closed cup: 24°C (75.2°F)

Auto-ignition temperature

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

Decomposition temperature	;	Not available.
рН	:	Not applicable.
Viscosity	:	Not available.
Solubility(ies)	:	
Not available.		
Solubility in water	:	Not available.
Partition coefficient: n-octanol/	:	Not applicable.

## water

## Vapour pressure

	Vapour Pressure at 20°C			Vaj	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.
Density	: 1.3 g/cm <sup>3</sup>
Vapour density	: Not available.
Explosive properties	: Not available.
Oxidising properties	: Not available.
Particle characteristics	
Median particle size	: Not applicable.

SECTION 10: Stabilit	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
Xylene	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	Rat	29000 mg/l	4 hours
	mists			
	LD50 Dermal	Rabbit	15400 mg/kg	-
	LD50 Oral	Rat	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
<b>X</b> ylene	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 l	
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	
<b>Conclusion/Summary</b>	Based on available data, the classification criteria are not met.
<u>Mutagenicity</u>	
<b>Conclusion/Summary</b>	Based on available data, the classification criteria are not met.
Carcinogenicity	
	arcinogenic hazard of this product arises when respirable dust is inhaled in quantities t of particle clearance mechanisms in the lung.
<b>Conclusion/Summary</b>	Based on available data, the classification criteria are not met.
Reproductive toxicity	
<b>Conclusion/Summary</b>	Based on available data, the classification criteria are not met.
Teratogenicity	
Conclusion/Summany	Pased on available data, the elassification criteria are not mot

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

## 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	0,	oral, inhalation	-
Ethylbenzene		oral, inhalation	hearing organs

#### **Aspiration hazard**

Product/ingredient name	Result	
Xylene	ASPIRATION HAZARD - Category 1	
Ethylbenzene	ASPIRATION HAZARD - Category 1	

# Information on likely routes : Not available. of exposure

Potential acute health effects		
Eye contact	:	Causes serious eye irritation.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	÷	Causes skin irritation.
Ingestion	:	No known significant effects or critical hazards.

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

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.

Delayed and immediate effect	ts as well as chror	nic effects from sho	ort and long-term exp	<u>osure</u>
Short term exposure				
Potential immediate effects	: Not available.			
Potential delayed effects	: Not available.			
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# **SECTION 11: Toxicological information**

Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	<u>ects</u>
Not available.	
<b>Conclusion/Summary</b>	: 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
intanium 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
2	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 - <i>Pseudokirchneriella</i> <i>subcapitata</i> - Exponential growth phase	72 hours
	Acute IC50 1.85 mg/I 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
<b>X</b> ylene	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 invited interest.
	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	ΙΑΤΑ
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
14.4 Packing group	111	Ш	111	111
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

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## **SECTION 14: Transport information**

	4 -	
14.7 Maritime transport in bulk according to IMO instruments	:	Not relevant/applicable due to nature of the product.
14.6 Special precautions for user	:	<b>Transport within user's premises:</b> 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.
ΙΑΤΑ	1	The environmentally hazardous substance mark may appear if required by other transportation regulations.
IMDG	1	The marine pollutant mark is not required when transported in sizes of $\leq$ 5 L or $\leq$ 5 kg.
ADN	1	The environmentally hazardous substance mark is not required when transported in sizes of $\leq 5 \text{ L}$ or $\leq 5 \text{ kg}$ .
ADR/RID	:	The environmentally hazardous substance mark is not required when transported in sizes of $\leq 5 \text{ L}$ or $\leq 5 \text{ kg}$ . <b>Tunnel code</b> (D/E)
Additional information		

## 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]	
FEKNODUR COMBI 770-50	00	≥90	3	
Labelling	: 🔽			
Other EU regulations				
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed			
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed			
Explosive precursors	: Not applicat	ole.		
Ozone depleting substance Not listed.	<u>es (1005/2009/E</u>	<u>EU)</u>		
Prior Informed Consent (PI Not listed.	<u>C) (649/2012/E</u>	<u>U)</u>		
Persistent Organic Pollutar Not listed.	<u>nts</u>			
Seveso Directive				
This product is controlled und	der the Seveso	Directive.		
<u>Danger criteria</u>				
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Category			
P5c			
E2			
lational regulations			
<u>Austria</u>			
VbF class	: A II Very dangerous flammable liquid		
Limitation of the use of organic solvents	: Permitted.		
Czech Republic			
Storage code	: 11		
<u>Denmark</u>			
Danish fire class	: II-1		
Executive Order No. 1795	/ <u>2015</u>		
Ingredient name		Annex I Section A	Annex I Section E
titanium dioxide		Listed	-
Ethylbenzene		Listed	-
MAL-code	: 3-6		
Protection based on MAL	<ul> <li>According to the regulations o stipulations apply to the use o</li> </ul>		
	<b>General:</b> Gloves must be worn t coveralls/protective clothing mus	,	<b>v</b> .

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 posttreatments 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 of operator is inside the spray zone and during spraying ou or booth. - Air-supplied full mask, protective clothing and hood mu	tside a closed facility, cabin
	<b>Drying:</b> Items for drying/drying ovens that are temporal rack trolleys, etc, must be equipped with a mechanical e fumes from wet items from passing through workers' inf	xhaust system to prevent
	<b>Polishing:</b> When polishing treated surfaces, a mask w When machine grinding, eye protection must be worn. W worn.	
	Caution The regulations contain other stipulations in ac	dition to the above.
	*See Regulations.	
Restrictions on use	: Not to be used by professional users below 18 years of Working Environment Authorities Executive Order regar	
List of undesirable substances	: Not listed	
Carcinogenic waste	: Waste containers must be labeled: Contains a substance by Danish working environment legislation on cancer ris	
<b>Finland</b>		
<u>France</u>		
Social Security Code, Articles L 461-1 to L 461-7	n-Butyl acetate	RG 4bis, RG 84 RG 84 RG 84
Reinforced medical surveillance	: Act of July 11, 1977 determining the list of activities which medical surveillance: not applicable	ch require reinforced
<u>Germany</u>		
Storage class (TRGS 510)	: 3	
Hazardous incident ordina	<u>ce</u>	
This product is controlled und	er the Germany Hazardous Incident Ordinance.	
Danger criteria		
Category		Reference number

Category	Reference number
P5c	1.2.5.3
E2	1.3.2

Hazard class for water	: 2
Technical instruction on air quality control	:
	TA-Luft Class II - Number 5.2.7.1.1: 0.4%
<u>Italy</u>	
D.Lgs. 152/06	: Not determined.
<u>Netherlands</u>	
Ministry of Social Affairs a reprotoxic substances	and Employment (SZW) - Carcinogenic substances and processes, mutagenic or

Ingredient name	Carcinogen	Mutagen	Reproductive toxicity - Fertility	Reproductive toxicity - Development	Harmful via breastfeeding
<b>x</b> ylene	-	-	-	Development 2	-
Naphtha (petroleum), hydrodesulfurized heavy	Listed	Listed	-	-	-
Naphtha (petroleum), hydrotreated heavy	Listed	Listed	-	-	-
Water Discharge Polic (ABM)	environn	nent (carcinogeni	substances with haza icity/ mutagenicity/ re econtamination effort	protoxicity/ bioacun	
<u>Norway</u>	,	. ,			
<u>Sweden</u>					
Flammable liquid clas (SRVFS 2005:10)	<b>s</b> : 2a				
<u>Switzerland</u>					
VOC content	: 🔽 OC (w/	w): 35.9%			
nternational regulation					
hemical Weapon Con Not listed.	vention List Sch	edules I, II & III (	<u>Chemicals</u>		
Iontreal Protocol Not listed.					
tockholm Convention	on Persistent O	rganic Pollutan	<u>ts</u>		
totterdam Convention	on Prior Inform	ed Consent (PIC	D.		
INECE Aarhus Protoco Not listed.	ol on POPs and I	<u>Heavy Metals</u>			
.2 Chemical safety sessment	: This pro required		ostances for which Cl	nemical Safety Ass	essments are stil
ECTION 16: Oth	er informati	on			
Indicates information t	hat has changed	from previously i	ssued version.		
obreviations and	: ATE = A	cute Toxicity Esti	imate		
ronyms	CLP = C 1272/20		elling and Packaging	Regulation [Regula	ation (EC) No.

acronyms	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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revision		
Date of previous issue	e : 27/06/2022	
Version	: 4	

## 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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