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

SAFETY DATA SHEET



TEKNORAN COMBI 1485-09 - All variants

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

1.1 Product identifier

Product name : TEKNORAN COMBI 1485-09 - 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 Sens. 1, H317 Aquatic Chronic 3, H412

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

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

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

2.2 Label elements

Hazard pictograms



Signal word	Irning	
Hazard statements	26 - Flammable liquid and 17 - May cause an allergic 12 - Harmful to aquatic life	skin reaction.
Precautionary statements		
Prevention	80 - Wear protective glove 10 - Keep away from heat ırces. No smoking. 73 - Avoid release to the e 61 - Avoid breathing vapor	hot surfaces, sparks, open flames and other ignition nvironment.
Response	62 + P364 - Take off conta	aminated clothing and wash it before reuse.
Storage	t applicable.	

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SECTION 2: Hazards identification

Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	1	Contains: EO bis(benztriazolyl)phenylpropionat
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
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≥10 - ≤25	Carc. 2, H351 (inhalation)	-	[1] [*]
Xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	<10	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 (oral, inhalation) Asp. Tox. 1, H304	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
Solvent naphtha (petroleum), light aromatic	REACH #: 01-2119455851-35 EC: 265-199-0 CAS: 64742-95-6 Index: 649-356-00-4	≤5	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	-	[1]
n-Butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≤3	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	≤3	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) (oral, inhalation) Asp. Tox. 1, H304	ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
EO bis(benztriazolyl)	REACH #:	<1	Skin Sens. 1A, H317	-	[1]

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SECTION 3: Co	mposition/information of	on ingredients	
phenylpropionat	01-0000015075-76 EC: 400-830-7 CAS: 104810-48-2 Index: 607-176-00-3	Aquatic Chronic 2, H411	
		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. <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 \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 if irritation occurs.
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 if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. 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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/syr	<u>mptoms</u>
Eye contact	: No specific data.
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

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5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising f	rom the substance or mixture
Hazards from the substance or mixture	: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur 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	tective equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
6.3 Methods and material for	containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an

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contractor.

appropriate waste disposal container. Dispose of via a licensed waste disposal

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

7.3 Specific end use(s)

Recommendations

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

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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
Xylene	Regulation on Limit Values - MAC (Austria, 4/2021). [Xylenes
	(all isomers)]
	PEAK: 442 mg/m ³ , 4 times per shift, 15 minutes.
	TWA: 50 ppm 8 hours.
	PEAK: 100 ppm, 4 times per shift, 15 minutes. TWA: 221 mg/m ³ 8 hours.
n-Butyl acetate	Regulation on Limit Values - MAC (Austria, 4/2021). [Butyl
	acetate (all isomers except tert-butyl acetate)]
	CEIL: 480 mg/m ³ 15 minutes.
	CEIL: 100 ppm 15 minutes.
	TWA: 241 mg/m ³ 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 ³ 8 hours.
	CEIL: 200 ppm, 8 times per shift, 5 minutes.
	CEIL: 880 mg/m ³ , 8 times per shift, 5 minutes.
Xylene	Limit values (Belgium, 5/2021). [Xylene] Absorbed through
	skin.
	TWA: 50 ppm 8 hours. TWA: 221 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 442 mg/m ³ 15 minutes.
n-Butyl acetate	Limit values (Belgium, 5/2021). [butyl acetate, all isomers]
	STEL: 712 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 238 mg/m ³ 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 ³ 8 hours.
	STEL: 125 ppm 15 minutes. STEL: 551 mg/m ³ 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/m³ 8 hours. Limit value 15 min: 442 mg/m³ 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 ³ 8 hours.
	Limit value 15 min: 723 mg/m ³ 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/m³ 8 hours. Limit value 15 min: 545 mg/m³ 15 minutes.
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SECTION 8: Exposure controls/personal protection Ministry of Economy, Labour and Entrepreneurship ELV/ **Xylene** STELV (Croatia, 1/2021). [xylene (all isomers)] Absorbed through skin. STELV: 442 mg/m³ 15 minutes. STELV: 100 ppm 15 minutes. ELV: 221 mg/m³ 8 hours. ELV: 50 ppm 8 hours. Ministry of Economy, Labour and Entrepreneurship ELV/ Solvent naphtha (petroleum), light aromatic STELV (Croatia). ELV: 100 ppm ELV: 400 mg/m³ n-Butyl acetate Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). STELV: 723 mg/m³ 15 minutes. STELV: 150 ppm 15 minutes. ELV: 241 mg/m³ 8 hours. ELV: 50 ppm 8 hours. Ministry of Economy, Labour and Entrepreneurship ELV/ Ethylbenzene STELV (Croatia, 1/2021). Absorbed through skin. STELV: 884 mg/m³ 15 minutes. STELV: 200 ppm 15 minutes. ELV: 442 mg/m³ 8 hours. ELV: 100 ppm 8 hours. Department of labour inspection (Cyprus, 7/2021). [Xylene, **Xylene** mixed isomers] Absorbed through skin. STEL: 100 ppm 15 minutes. STEL: 442 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 221 ma/m³ 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/m³ 8 hours. Ethylbenzene Department of labour inspection (Cyprus, 7/2021). Absorbed through skin. STEL: 884 mg/m³ 15 minutes. TWA: 100 ppm 8 hours. TWA: 442 mg/m³ 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/m³ 8 hours. TWA: 45.4 ppm 8 hours. STEL: 400 mg/m³ 15 minutes. STEL: 90.8 ppm 15 minutes. Solvent naphtha (petroleum), light aromatic Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). [Nafta solvents] TWA: 200 mg/m³ 8 hours. STEL: 1000 mg/m³ 15 minutes. Government regulation of Czech Republic PEL/NPK-P (Czech n-Butyl acetate Republic, 10/2022). TWA: 241 mg/m³ 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/m³ 8 hours. TWA: 45.4 ppm 8 hours.

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STEL: 500 mg/m³ 15 minutes. STEL: 113.5 ppm 15 minutes.

TWA: 25 ppm 8 hours. TWA: 25 ppm 8 hours. STEL: 442 mg/m ² 15 minutes. STEL: 422 mg/m ² 15 minutes. STEL: 422 mg/m ² 15 minutes. STEL: 733 mg/m ² 16 minutes. STEL: 733 mg/m ² 16 minutes. STEL: 740 mg/m ² 16 minutes. STEL: 700 pm 15 minutes.	Xylene	Working Environment Authority (Denmark, 6/2022). [Xylenes, all isomers] Absorbed through skin.
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n-Butyl acetateSTEL: 100 ppm 15 minutes. TWA: 241 mg/m 9 hours. STEL: 723 mg/m 15 minutes. STEL: 733 mg/m 15 minutes. STEL: 733 mg/m 15 minutes. STEL: 735 mg/m 15 minutes. STEL: 745 mg/m 15 minutes. STEL: 750 ppm 15 minutes. STEL: 750 mg/m 15 minutes. STEL: 750 mg/m 15 minutes. STEL: 750 mg/m 15 minutes. STEL: 750 mg/m 15 minutes. STEL: 723 mg/m 16 minutes. STEL: 723 mg/m 16 minutes. STEL: 723 mg/m 16 minutes. STEL: 720 mg/m 15 minutes. S		•
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(Finland, 10/2020).		STEL: 100 ppm 15 minutes.
	Solvent naphtha (petroleum), light aromatic	
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	n-Butyl acetate	TWA: 100 mg/m ³ 8 hours. Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021).
		TWA: 150 ppm 8 hours. TWA: 720 mg/m ³ 8 hours. STEL: 200 ppm 15 minutes. STEL: 960 mg/m ³ 15 minutes.
	Ethylbenzene	Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 220 mg/m ³ 8 hours.
		STEL: 200 ppm 15 minutes. STEL: 880 mg/m ³ 15 minutes.
	Xylene	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 ³ 15 minutes. STEL: 100 ppm 15 minutes.
	Solvent naphtha (petroleum), light aromatic	TWA: 221 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. Ministry of Labor (France, 10/2022). [hydrocarbons C6-C12]
		Notes: Permissible limit values (circulars) TWA: 1000 mg/m ³ 8 hours. Form: Vapour STEL: 1500 mg/m ³ 15 minutes. Form: Vapour
	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 ³ 8 hours. STEL: 150 ppm 15 minutes.
	Ethylbenzene	STEL: 723 mg/m ³ 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 ³ 8 hours. STEL: 442 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes.
	Linseed oil, epoxidized	TRGS 900 OEL (Germany, 6/2022). [triglycerides] PEAK: 20 mg/m ³ 15 minutes. Form: Respirable fraction TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction
	Xylene	TRGS 900 OEL (Germany, 6/2022). [xylene] Absorbed through skin. TWA: 220 mg/m ³ 8 hours. PEAK: 440 mg/m ³ 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/m³ 8 hours. PEAK: 440 mg/m³, 4 times per shift, 15 minutes.
	n-Butyl acetate	 DFG MAC-values list (Germany, 7/2022). TWA: 100 ppm 8 hours. PEAK: 200 ppm, 4 times per shift, 15 minutes. TWA: 480 mg/m³ 8 hours. PEAK: 960 mg/m³, 4 times per shift, 15 minutes. TRGS 900 OEL (Germany, 6/2022). TWA: 300 mg/m³ 8 hours. TWA: 62 ppm 8 hours. PEAK: 600 mg/m³ 15 minutes.
	Ethylbenzene	PEAK: 124 ppm 15 minutes. TRGS 900 OEL (Germany, 6/2022). Absorbed through skin. TWA: 88 mg/m ³ 8 hours.
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	PEAK: 176 mg/m ³ 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/m ³ , 4 times per shift, 15 minutes.
	TWA: 88 mg/m ³ 8 hours.
	TWA: 20 ppm 8 hours.
(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 ³ 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 650 mg/m ³ 15 minutes.
-Butyl acetate	Presidential Decree 307/1986: Occupational exposure limit
	values (Greece, 9/2021).
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m ³ 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
thylbenzene	Presidential Decree 307/1986: Occupational exposure limit
	values (Greece, 9/2021).
	TWA: 100 ppm 8 hours.
	TWA: 435 mg/m ³ 8 hours.
	STEL: 125 ppm 15 minutes.
	STEL: 545 mg/m ³ 15 minutes.
(ylene	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). [xylene, mixtur
-	of isomers] Absorbed through skin.
	TWA: 221 mg/m ³ 8 hours.
	PEAK: 442 mg/m ³ 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 ³ 8 hours.
	PEAK: 723 mg/m ³ 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 ³ 8 hours.
	PEAK: 884 mg/m ³ 15 minutes.
	PEAK: 200 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
(ylene	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021)
	[xylene, all isomers] Absorbed through skin.
	STEL: 442 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 109 mg/m ³ 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 ³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 723 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
Ethylbenzene	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).
,	Absorbed through skin.
	STEL: 884 mg/m ³ 15 minutes.
	STEL: 200 ppm 15 minutes.
	TWA: 200 mg/m ³ 8 hours.

Xylene	NAOSH ⁵ (Ireland, 572021). [xylene mixed isomers] Absorbed
Aylene	through skin. Notes: EU derived Occupational Exposure Limit
	Values
	OELV-8hr: 50 ppm 8 hours.
	OELV-8hr: 221 mg/m ³ 8 hours.
	OELV-15min: 100 ppm 15 minutes. OELV-15min: 442 mg/m ³ 15 minutes.
n-Butyl acetate	NAOSH (Ireland, 5/2021). Notes: EU derived Occupational
	Exposure Limit Values
	OELV-8hr: 50 ppm 8 hours.
	OELV-8hr: 241 mg/m ³ 8 hours.
	OELV-15min: 150 ppm 15 minutes. OELV-15min: 723 mg/m ³ 15 minutes.
Ethylbenzene	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU
, , , , , , , , , , , , , , , , , , ,	derived Occupational Exposure Limit Values
	OELV-8hr: 100 ppm 8 hours.
	OELV-8hr: 442 mg/m ³ 8 hours.
	OELV-15min: 200 ppm 15 minutes. OELV-15min: 884 mg/m ³ 15 minutes.
Yulono	
Xylene	Legislative Decree No. 819/2008. 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/m ³ 8 hours.
	Short Term: 100 ppm 15 minutes.
n-Butyl acetate	Short Term: 442 mg/m ³ 15 minutes. EU OEL (Europe, 1/2022). Notes: list of indicative
	occupational exposure limit values
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
	TWA: 241 mg/m ³ 8 hours.
Ethylbenzene	TWA: 50 ppm 8 hours. 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/m ³ 8 hours.
	Short Term: 200 ppm 15 minutes. Short Term: 884 mg/m³ 15 minutes.
Xylene	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).
Aylelle	[Xylenes] Absorbed through skin.
	TWA: 221 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.
n-Butyl acetate	STEL: 442 mg/m³ 15 minutes. Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).
	TWA: 241 mg/m ³ 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
Ethylbenzene	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). Absorbed through skin.
	TWA: 442 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 884 mg/m ³ 15 minutes.
Xylene	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).
	[xylene, mixed isomers, pure] Absorbed through skin.
	STEL: 442 mg/m ³ 15 minutes. TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.
	TWA: 221 mg/m ³ 8 hours.
n-Butyl acetate	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).
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SECTION 8: Exposure controls/personal protection TWA: 241 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 723 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Ethylbenzene 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. **Xylene** 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. 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/m³ 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/m³ 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m³ 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/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m³ 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/m³ 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/m³ 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m³ 15 minutes. Ministry of Social Affairs and Employment, Legal limit values **Xylene** (Netherlands, 12/2022). [xylenes (all isomers)] Absorbed through skin. OEL, 8-h TWA: 210 mg/m³ 8 hours. STEL,15-min: 442 mg/m³ 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/m³ 8 hours. STEL,15-min: 723 mg/m³ 15 minutes. STEL,15-min: 150 ppm 15 minutes. OEL, 8-h TWA: 50 ppm 8 hours. Ethylbenzene Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). Absorbed through skin.

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SECTION 8: Exposure controls/personal protection OEL, 8-h TWA: 215 mg/m³ 8 hours. STEL,15-min: 430 mg/m³ 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/m³ 8 hours. FOR-2011-12-06-1358 (Norway, 12/2022). n-Butyl acetate STEL: 723 mg/m3 15 minutes. STEL: 150 ppm 15 minutes. FOR-2011-12-06-1358 (Norway, 12/2022). Notes: indicative limit value TWA: 241 mg/m³ 8 hours. TWA: 50 ppm 8 hours. Ethylbenzene FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through skin. Carcinogen. Notes: indicative limit value TWA: 5 ppm 8 hours. TWA: 20 mg/m³ 8 hours. Regulation of the Minister of Family, Labor and Social Policy **Xylene** 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. n-Butyl acetate 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. 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.

Xylene

n-Butyl acetate

Ethylbenzene

Xylene

Solvent naphtha (petroleum), light aromatic

n-Butyl acetate

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VLA: 241 mg/m³ 8 hours. : 08/02/2024

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through skin.

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

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

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

TWA: 20 ppm 8 hours.

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

VLA: 100 mg/m³ 8 hours.

additions (Romania, 3/2021).

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

Short term: 200 mg/m³ 15 minutes.

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

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

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

HG 1218/2006, Annex 1, with subsequent modifications and

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

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

Ethylbenzene	VLA: 50 ppm 8 hours. Short term: 723 mg/m ³ 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 ³ 8 hours. VLA: 100 ppm 8 hours. Short term: 884 mg/m ³ 15 minutes. Short term: 200 ppm 15 minutes.
Kylene	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.
n-Butyl acetate	STEL: 100 ppm, (xylene, mixed isomers) 15 minutes. Government regulation SR c. 355/2006 (Slovakia, 9/2020). [Butyl acetates] TWA: 241 mg/m ³ , (Butyl acetates) 8 hours. TWA: 50 ppm, (Butyl acetates) 8 hours. STEL: 723 mg/m ³ , (Butyl acetates) 15 minutes.
Ethylbenzene	STEL: 150 ppm, (Butyl acetates) 15 minutes. Government regulation SR c. 355/2006 (Slovakia, 9/2020). Absorbed through skin. TWA: 442 mg/m ³ 8 hours. TWA: 100 ppm 8 hours. STEL: 884 mg/m ³ 15 minutes. STEL: 200 ppm 15 minutes.
Kylene	Regulation on protection of workers from the risks related t exposure to chemical substances at work (Slovenia, 5/2021) [xylene (mixture of isomers)] Absorbed through skin. TWA: 221 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. KTV: 442 mg/m ³ , 4 times per shift, 15 minutes. KTV: 100 ppm, 4 times per shift, 15 minutes.
n-Butyl acetate	Regulation on protection of workers from the risks related t exposure to chemical substances at work (Slovenia, 5/2021) TWA: 241 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. KTV: 723 mg/m ³ , 4 times per shift, 15 minutes.
thylbenzene	KTV: 150 ppm, 4 times per shift, 15 minutes. Regulation on protection of workers from the risks related t exposure to chemical substances at work (Slovenia, 5/2021 Absorbed through skin. TWA: 442 mg/m ³ 8 hours. TWA: 100 ppm 8 hours. KTV: 884 mg/m ³ , 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 ³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m ³ 15 minutes.
n-Butyl acetate	National institute of occupational safety and health (Spain, 4/2022). TWA: 50 ppm 8 hours. TWA: 241 mg/m ³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m ³ 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 ³ 8 hours.

SECTION 8: Exposure co	ntrols/personal protection
	STEL: 200 ppm 15 minutes. STEL: 884 mg/m ³ 15 minutes.
Xylene	Work environment authority Regulation 2018:1 (Sweden, 9/2021). [xylene] Absorbed through skin.
n-Butyl acetate	TWA: 50 ppm 8 hours. TWA: 221 mg/m ³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m ³ 15 minutes. Work environment authority Regulation 2018:1 (Sweden, 9/2021). [butyl acetate] TWA: 50 ppm 8 hours.
Ethylbenzene	TWA: 241 mg/m ³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m ³ 15 minutes. Work environment authority Regulation 2018:1 (Sweden, 9/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 220 mg/m ³ 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m ³ 15 minutes.
Linseed oil, epoxidized	SUVA (Switzerland, 1/2023). [triglycerides]
Xylene	STEL: 20 mg/m ³ 15 minutes. Form: Inhalable fraction TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction SUVA (Switzerland, 1/2023). [Xylenes (all isomers)] Absorbed through skin.
n-Butyl acetate	TWA: 50 ppm 8 hours. TWA: 220 mg/m ³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 440 mg/m ³ 15 minutes. SUVA (Switzerland, 1/2023). TWA: 50 ppm 8 hours. TWA: 240 mg/m ³ 8 hours. STEL: 150 ppm 15 minutes.
Ethylbenzene	STEL: 720 mg/m ³ 15 minutes. SUVA (Switzerland, 1/2023). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 220 mg/m ³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 220 mg/m ³ 15 minutes.
Xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m- p- or mixed isomers] Absorbed through skin. STEL: 441 mg/m ³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 220 mg/m ³ 8 hours. STEL: 100 ppm 15 minutes.
n-Butyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 966 mg/m ³ 15 minutes. STEL: 200 ppm 15 minutes. TWA: 724 mg/m ³ 8 hours.
Ethylbenzene	TWA: 150 ppm 8 hours. EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 552 mg/m ³ 15 minutes. STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours. TWA: 441 mg/m ³ 8 hours.

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SECTION 8: Exposure controls/personal protection **Product/ingredient name Exposure indices** VGU BEI (Austria, 9/2020) [xvlenes] **Xylene** 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. **Xylene** 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 week. BEI: 1.5 g/g creatinine, almond acid [in urine]. Sampling time: at the end of the work shift and at the end of the working week. No exposure indices known. **Xylene** 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. Government regulation of Czech Republic Limit Values of Ethylbenzene **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. **Xylene** 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.	
Kylene	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). BEI: 250 mg/g creatinine, mandelic acid plus phenyl glyoxylic acid [in urine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 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.	
Kylene	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.
Ethylbenzene	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022) BEI: 1500 mg/g creatinine, mandelic acid [in urine]. Sampling tim 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.
No exposure indices known.	
Kylene	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.
Ethylbenzene	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 origi of the determinant is in question., ethylbenzene [in endexhaled air Sampling time: not critical. BMGV: 0.7 g/g creatinine [Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative interpretation of the measurement is ambiguous. These analytes should be used as a screening test if a quantitative test is not practical; or as a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question.], mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift at end of workweek.
No exposure indices known.	
No exposure indices known. No exposure indices known.	

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No exposure indices known.	
No exposure indices known.	
Xylene	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.
Ethylbenzene	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.
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.
Xylene	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 shif BLV: 1334 mg/g creatinine, sum of 2,3,4-methylhippuroic acids [i 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	 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. BLV: 1067 mg/g creatinine, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift. 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 shifts. BLV: 10590 μmol/l, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shifts. BLV: 98.6 μmol/l, 2 or 4-etylfenol [in urine]. Sampling time: at the end of 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: 1600 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. 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.

Xylene	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.
Xylene	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.	
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.
procedures E a v a c c ((f d	Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the issessment of exposure by inhalation to chemical agents for comparison with limit alues and measurement strategy) European Standard EN 14042 (Workplace tmospheres - 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 procedure or the measurement of chemical agents) Reference to national guidance locuments for methods for the determination of hazardous substances will also be equired.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Xylene	DNEL	Long term	65.3 mg/m ³	General	Local
-		Inhalation	_	population	
	DNEL	Short term	260 mg/m ³	General	Local
		Inhalation	_	population	
	DNEL	Short term	260 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term	221 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Long term Oral	12.5 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term	65.3 mg/m ³	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 ³	Workers	Systemic
		Inhalation			
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	DNEL	Short term	442 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Short term	442 mg/m ³	Workers	Systemic
	DNE	Inhalation	0.44		
Solvent naphtha (petroleum), light	DNEL	Long term	0.41 mg/m ³	General	Systemic
aromatic	DNEL	Inhalation	$1.0 m g/m^{3}$	population Workers	Svotomio
	DINEL	Long term Inhalation	1.9 mg/m ³	VVOIKEIS	Systemic
	DNEL	Long term	178.57 mg/	General	Local
	DINCL	Inhalation	m ³	population	Local
	DNEL	Short term	640 mg/m ³	General	Local
	DILLE	Inhalation	o ro mg/m	population	Local
	DNEL	Long term	837.5 mg/	Workers	Local
		Inhalation	m³ Ö		
	DNEL	Short term	1066.67	Workers	Local
		Inhalation	mg/m³		
	DNEL	Short term	1152 mg/	General	Systemic
		Inhalation	m³	population	
	DNEL	Short term	1286.4 mg/	Workers	Systemic
		Inhalation	m³	-	
n-Butyl acetate	DNEL	Short term Oral	2 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Oral	2 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term Dermal	6 mg/kg	General	Systemic
			bw/day	population	Quanta main
	DNEL	Short term Dermal	11 mg/kg	Workers	Systemic
	DNEL	Long term	bw/day 35.7 mg/m³	General	Local
	DNEL	Inhalation	55.7 mg/m	population	LUCAI
	DNEL	Short term	300 mg/m ³	General	Local
	DIVLL	Inhalation	Soo mg/m	population	Local
	DNEL	Short term	300 mg/m ³	General	Systemic
	DILLE	Inhalation	ooo mg/m	population	Cyclonic
	DNEL	Long term	300 mg/m ³	Workers	Local
		Inhalation	000g,		
	DNEL	Short term	600 mg/m ³	Workers	Local
		Inhalation	Ũ		
	DNEL	Short term	600 mg/m ³	Workers	Systemic
		Inhalation			
	DNEL	Long term Dermal	3.4 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	7 mg/kg	Workers	Systemic
			bw/day	•	
	DNEL	Long term	12 mg/m³	General	Systemic
	DNE	Inhalation	10	population	
	DNEL	Long term	48 mg/m ³	Workers	Systemic
		Inhalation	1.6 mg/kg	Conoral	Sustamia
Ethylbenzene	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term	15 mg/m ³	General	Systemic
	DINLL	Inhalation	15 mg/m	population	Systemic
	DNEL	Long term	77 mg/m³	Workers	Systemic
		Inhalation			Cysternie
	DNEL	Long term Dermal	180 mg/kg	Workers	Systemic
		_ong tonn Donnal	bw/day		0,0001110
	DNEL	Short term	293 mg/m ³	Workers	Local
		Inhalation	,		
	DMEL	Long term	442 mg/m ³	Workers	Local
		Inhalation			
	DMEL	Short term	884 mg/m³	Workers	Systemic
		Inhalation			-

PNECs

No PNECs available

Date of issue/Date of revision

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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection		
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
		Recommendations : Wear suitable gloves tested to EN374.
		< 1 hour (breakthrough time): Nitrile gloves. thickness > 0.3 mm
		1 - 4 hours (breakthrough time): polyvinyl alcohol (PVA) thickness > 0.3 mm or 4H / Silver Shield® gloves.
		> 8 hours (breakthrough time): Viton® thickness > 0.3 mm gloves
		Wash hands before breaks and immediately after handling the product.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
		Filter type: A
		Filter type (spray application): A P
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

: Liquid.
: Various
: Slight
: Not available.
: Not available.
:

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

Flammability
Lower and upper explose
limit

: Not available.

explosion : Lower: 0.8% Upper: 7.6%

Flash point

: Closed cup: 25°C (77°F)

Auto-ignition temperature

Ingredient name		°C	°F	Method	
Solvent naphtha (petroleum), light aroma	tic	280 to 470	536 to 878		
n-Butyl acetate		415	779	EU A.15	
Decomposition temperature	: Not ava	ilable.			
рН	: Not app	licable.			

Viscosity : Not available.

Solubility(ies) Not available.

Solubility in water

: Not available.

2

ŝ

Partition coefficient: n-octanol/ : Not applicable.

Vapour pressure

water

	Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
n-Butyl acetate	11.25096	1.5	DIN EN 13016-2			
Ethylbenzene	9.30076	1.2				

Relative density	: Not available.
Density	: 1.7 g/cm ³
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, welch braze, solder, drill, grind or expose containers to heat or sources of ignition.	l,
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	-
Solvent naphtha	LD50 Oral	Rat	8400 mg/kg	-
(petroleum), light aromatic				
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	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
	19701.12 mg/kg 161.2 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300	-
				ug l	
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	
Solvent naphtha (petroleum),	Eyes - Mild irritant	Rabbit	-	24 hours 100	-
light aromatic				uL	
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	
Conclusion/Summary	: Based on available data,	the classification of	riteria are	e not met.	

SECTION 11: Toxicological information

	•
Sensitisation	
Conclusion/Summary	: May cause an allergic skin reaction.
<u>Mutagenicity</u>	
Conclusion/Summary	: Based on available data, the classification criteria are not met.
Carcinogenicity	
	e carcinogenic hazard of this product arises when respirable dust is inhaled in quantities nent 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	
Conclusion/Summers	. Based on evallable data the eleccification criteria are not mot

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

Specific target organ toxicity (single exposure)

Category	Route of exposure	Target organs
Category 3	-	Respiratory tract irritation
Category 3	-	Respiratory tract irritation
Category 3		Narcotic effects Narcotic effects
	Category 3 Category 3	Category 3 - Category 3 - Category 3 - Category 3

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

Product/ingredient name	Result
Xylene	ASPIRATION HAZARD - Category 1
Solvent naphtha (petroleum), light aromatic	ASPIRATION HAZARD - Category 1
Ethylbenzene	ASPIRATION HAZARD - Category 1

Information on likely routes of exposure	1	Not available.
Potential acute health effects		
Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	May cause an allergic skin reaction.
Ingestion	:	No known significant effects or critical hazards.
Symptoms related to the phy	sic	cal, chemical and toxicological characteristics
Eve contact	1	No specific data

Eye contact	i no specific data.
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

Delayed and immediate effe	cts as well as chronic effects from short and long-term exposure
<u>Short term exposure</u>	
Potential immediate effects	: Not available.

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	•
Potential delayed effects	: Not available.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	ects
Not available.	
Conclusion/Summary	: Not available.
General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
titanium 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
Solvent naphtha (petroleum), light aromatic	Acute EC50 3.2 mg/l	Daphnia	48 hours
0	Acute LC50 9.2 mg/l	Fish	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
Conclusion/Summary	: Harmful to aquatic life with long lasti	ng effects.	1

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
Xylene	3.12	8.1 to 25.9	Low
Solvent naphtha (petroleum),	-	10 to 2500	High
light aromatic			
n-Butyl acetate	2.3	-	Low
Ethylbenzene	3.6	-	Low

12.4 Mobility in soil

Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

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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 method	5
Product	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.
European waste catalogue (EWC)	: 080111
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

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	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	Ш	Ш	111	111
14.5 Environmental hazards	No.	No.	No.	No.
Additional informa	tion	·		
ADR/RID	packagir Tunnel (ngs up to 450 L accordi <u>code</u> (D/E)	ng to 2.2.3.1.5.1.	not subject to regulation in
ADN		<u>a liquid exception</u> This ngs up to 450 L accordi		not subject to regulation in
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IMDG : <u>Viscous liquid exception</u> This class 3 viscous liquid is not subject to regulat packagings up to 450 L according to 2.3.2.5.					
14.6 Special precautions for user	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do i 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.				

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]
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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	1	Not applicable.
Ozone depleting substand Not listed.	<u>:es</u>	<u>(1005/2009/EU)</u>
Prior Informed Consent (P Not listed.	<u>() ()</u>	<u>(649/2012/EU)</u>
Persistent Organic Polluta Not listed.	ants	ž

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

	Category
	P5c
Na	tional regulations

Austria

VbF class

: A II

Very dangerous flammable liquid.

Limitation of the use of organic solvents	: Permitted.
Czech Republic	
Storage code	: 11
<u>Denmark</u>	
Product registration number	: 4499815
Danish fire class	: II-1
Executive Order No. 1795	/ <u>2015</u>
Ingredient name	

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

MAL-code	:	3-1
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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: 3-1

Application: When spraying in new* booths if the operator is outside the spray zone. When using scraper or knife, brush, roller, etc, for pre- and post-treatments 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. During downtimes, cleaning and repair in closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents.

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

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

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

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 must be worn.

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

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

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

Polishing: When polishing treated surfaces, a mask with dust filter must be worn.

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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 : Not listed substances **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 • Xvlene RG 4bis RG 84

Social Security Code,		Aylene	RG 4015, RG 04
Articles L 461-1 to L 461-7		Solvent naphtha (petroleum), light aromatic	RG 84
		n-Butyl acetate	RG 84
		Ethylbenzene	RG 84
Reinforced medical surveillance	1	Act of July 11, 1977 determining the list of activ medical surveillance: not applicable	ities which require reinforced
-			

Germany

Storage class (TRGS 510) : 3

Hazardous incident ordinance

This product is controlled under the Germany Hazardous Incident Ordinance.

Danger criteria

Category	Reference number
P5c	1.2.5.3

Hazard class for water	11	2
Technical instruction on air quality control	-	TA-Luft Class I - Number 5.2.5: 28.9% TA-Luft Number 5.2.5: 12.4%
<u>Italy</u>		
D.Lgs. 152/06	:	Not determined.

Netherlands

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

Ingredient name	Carcinogen	Mutagen	Reproductive toxicity - Fertility	Reproductive toxicity - Development	Harmful via breastfeeding
xylene Solvent naphtha (petroleum), light arom.	- Listed	- Listed	-	Development 2 -	-
silica, crystalline (NL- carcinogen specific)	Listed	-	-	-	-
Water Discharge Policy (ABM)	environm	ent (carcinogeni	ubstances with haza city/ mutagenicity/ re econtamination effor	protoxicity/ bioacun	
<u>Norway</u> Sweden					
Flammable liquid class (SRVFS 2005:10)	: 2a				
<u>Switzerland</u>					
VOC content nternational regulations	: VOC (w/w	v): 12.9%			
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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.

1	5.2	Chem	nical	safety
a	922	ssme	nt	

: 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]

Justification
On basis of test data Calculation method Calculation method

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications [CLP/GHS]

SECTION 16: Ot	her information
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
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
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
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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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