SAFETY DATA SHEET



EMAPUR P - All variants

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

1.1 Product identifier Product name

: EMAPUR P - 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

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	Varning	
Hazard statements	l226 - Flammable liquid and vapour. l315 - Causes skin irritation. l319 - Causes serious eye irritation. l373 - May cause damage to organs through prolonged or repeated expos	sure.
Precautionary statements		
Prevention	280 - Wear protective gloves. Wear eye or face protection. 210 - Keep away from heat, hot surfaces, sparks, open flames and other ources. No smoking. 260 - Do not breathe vapour. 264 - Wash thoroughly after handling.	ignition
Response	314 - Get medical advice/attention if you feel unwell.	
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SECTION 2: Hazards identification

Storage	4	Not applicable.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	:	Contains: 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	:	None known.

not result in classification

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture				
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 - <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]
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 See Section 16 for the full text of the H statements declared above.	ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]

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.

SECTION 3: Composition/information on ingredients

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[*] The classification as a carcinogen by inhalation applies only to mixtures placed on the market in powder form containing 1% or more of titanium dioxide particles with aerodynamic diameter \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 firs	t 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.
ngestion	: 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

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.

attention immediately. Maintain an open airway. Loosen tight clothing such as a

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

collar, tie, belt or waistband.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large
	quantities have been ingested or inhaled.
Our a stift a two stores and a	

Specific treatments : No specific treatment.

SECTION 5: Firefighting measures

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.

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SECTION 5: Firefighting measures

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5.2 Special hazards arising f	ron	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.
Hazardous combustion products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide 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	te	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).
6.3 Methods and material for	со	ntainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
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. 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

7.3 Specific end use(s)

Recommendations

: Not available.

: Not available. Industrial sector specific solutions

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
₩ylene	Regulation on Limit Values - MAC (Austria, 4/2021). [Xylenes (all isomers)] PEAK: 442 mg/m ³ , 4 times per shift, 15 minutes.
n-Butyl acetate	TWA: 50 ppm 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes. TWA: 221 mg/m ³ 8 hours. 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
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SECTION 8: Exposure controls/personal protection through skin. TWA: 100 ppm 8 hours. TWA: 440 mg/m³ 8 hours. CEIL: 200 ppm, 8 times per shift, 5 minutes. CEIL: 880 mg/m³, 8 times per shift, 5 minutes. **Xylene** Limit values (Belgium, 5/2021). [] Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 221 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m³ 15 minutes. n-Butyl acetate Limit values (Belgium, 5/2021). [] STEL: 712 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 238 mg/m³ 8 hours. TWA: 50 ppm 8 hours. Limit values (Belgium, 5/2021). Absorbed through skin. Ethylbenzene TWA: 20 ppm 8 hours. TWA: 87 mg/m³ 8 hours. STEL: 125 ppm 15 minutes. STEL: 551 mg/m³ 15 minutes. **X**ylene Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). [Xylene (mixture of isomers), pure] Absorbed through skin. Limit value 8 hours: 221 mg/m³ 8 hours. Limit value 15 min: 442 mg/m³ 15 minutes. Limit value 15 min: 100 ppm 15 minutes. Limit value 8 hours: 50 ppm 8 hours. Ministry of Labour and Social Policy and the Ministry of n-Butyl acetate Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Limit value 8 hours: 241 mg/m³ 8 hours. Limit value 15 min: 723 mg/m³ 15 minutes. Limit value 15 min: 150 ppm 15 minutes. 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. Ministry of Economy, Labour and Entrepreneurship ELV/ **Xylene** STELV (Croatia, 1/2021). [] 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. Biological Limit Value (Croatia). Xylene: 1500 mg/m³, (in blood (14.13 µmol/L) - at the end of the work shift) Methylpuric acid: 1500000 ppm, (creatinine in urine (0.88 mol/mol creatinine) - at the end of the work shift) 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. Ethylbenzene Ministry of Economy, Labour and Entrepreneurship ELV/ 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. Biological Limit Value (Croatia). Ethylbenzene: 1500 mg/m³, (in blood (14.1 µmol/L) - during

	exposure) almond acid: 1500000 ppm, (creatinine in urine (1.12 mol/mol creatinine) - at the end of the work shift and at the end of the worl week)
Kylene	Department of labour inspection (Cyprus, 7/2021). [Xylene, mixed isomers] Absorbed through skin. STEL: 100 ppm 15 minutes.
	STEL: 442 mg/m ³ 15 minutes. TWA: 50 ppm 8 hours.
	TWA: 221 mg/m ³ 8 hours.
n-Butyl acetate	Department of labour inspection (Cyprus, 7/2021). STEL: 150 ppm 15 minutes. STEL: 723 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
thylbenzene	TWA: 241 mg/m ³ 8 hours. Department of labour inspection (Cyprus, 7/2021). Absorbed
	through skin. STEL: 884 mg/m³ 15 minutes.
	TWA: 100 ppm 8 hours. TWA: 442 mg/m ³ 8 hours.
	STEL: 200 ppm 15 minutes.
ylene	Government regulation of Czech Republic PEL/NPK-P (Czec 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/m ³ 15 minutes.
n-Butyl acetate	STEL: 90.8 ppm 15 minutes. Government regulation of Czech Republic PEL/NPK-P (Czec
, ,	Republic, 10/2022).
	TWA: 241 mg/m ³ 8 hours. STEL: 723 mg/m ³ 15 minutes.
	STEL: 149.661 ppm 15 minutes.
	TWA: 49.887 ppm 8 hours.
thylbenzene	Government regulation of Czech Republic PEL/NPK-P (Czec Republic, 10/2022). Absorbed through skin.
	TWA: 200 mg/m ³ 8 hours.
	TWA: 45.4 ppm 8 hours.
	STEL: 500 mg/m ³ 15 minutes. STEL: 113.5 ppm 15 minutes.
ylene	Working Environment Authority (Denmark, 6/2022). [Xylenes
	all isomers] Absorbed through skin.
	TWA: 25 ppm 8 hours. TWA: 109 mg/m ³ 8 hours.
	STEL: 442 mg/m ³ 15 minutes.
Dutid exetst-	STEL: 100 ppm 15 minutes.
-Butyl acetate	Working Environment Authority (Denmark, 6/2022). [Butyl acetate, all isomers]
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m ³ 8 hours. STEL: 723 mg/m ³ 15 minutes.
	STEL: 723 mg/m ² 15 minutes.
thylbenzene	Working Environment Authority (Denmark, 6/2022). Absorbe
	through skin. Carcinogen. TWA: 50 ppm 8 hours.
	TWA: 217 mg/m ³ 8 hours.
	STEL: 434 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes.

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Xylene	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 ³ 15 minutes.
n-Butyl acetate	TWA: 200 mg/m ³ 8 hours. Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022).
	STEL: 150 ppm 15 minutes. STEL: 723 mg/m ³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 241 mg/m ³ 8 hours.
Ethylbenzene	Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). Absorbed through skin. Skin sensitiser. TWA: 442 mg/m ³ 8 hours. TWA: 100 ppm 8 hours. STEL: 884 mg/m ³ 15 minutes.
X ylene	STEL: 200 ppm 15 minutes. 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 ³ 8 hours. STEL: 100 ppm 15 minutes.
n-Butyl acetate	STEL: 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. TWA: 50 ppm 8 hours.
Ethylbenzene	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values
	TWA: 100 ppm 8 hours. TWA: 442 mg/m ³ 8 hours.
	STEL: 200 ppm 15 minutes. STEL: 884 mg/m ³ 15 minutes.
<mark>X</mark> ylene	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021). [Xylenes] Absorbed through skin. STEL: 440 mg/m ³ 15 minutes.
	TWA: 220 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
n-Butyl acetate	STEL: 100 ppm 15 minutes. 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.
Ethylbenzene	STEL: 960 mg/m ³ 15 minutes. 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, 5/2021). [] 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. TWA: 221 mg/m ³ 8 hours.
n-Butyl acetate	TWA: 50 ppm 8 hours. Ministry of Labor (France, 5/2021). Notes: Permissible limit
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SECTION 8: Exposure controls/personal protection values (circulars) TWA: 150 ppm 8 hours. TWA: 710 mg/m³ 8 hours. STEL: 200 ppm 15 minutes. STEL: 940 mg/m³ 15 minutes. Ministry of Labor (France, 5/2021). Absorbed through skin. Ethylbenzene Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA: 20 ppm 8 hours. TWA: 88.4 mg/m³ 8 hours. STEL: 442 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. **X**ylene TRGS 900 OEL (Germany, 6/2022). [xylene] Absorbed through skin. TWA: 220 mg/m³ 8 hours. PEAK: 440 mg/m³ 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. PEAK: 124 ppm 15 minutes. TRGS 900 OEL (Germany, 6/2022). Absorbed through skin. Ethylbenzene TWA: 88 mg/m³ 8 hours. PEAK: 176 mg/m³ 15 minutes. TWA: 20 ppm 8 hours. PEAK: 40 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). Absorbed through skin. PEAK: 40 ppm, 4 times per shift, 15 minutes. PEAK: 176 mg/m³, 4 times per shift, 15 minutes. TWA: 88 mg/m³ 8 hours. TWA: 20 ppm 8 hours. Presidential Decree 307/1986: Occupational exposure limit **Xylene** values (Greece, 9/2021). [] Absorbed through skin. TWA: 100 ppm 8 hours. TWA: 435 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 650 mg/m³ 15 minutes. n-Butyl acetate Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. Presidential Decree 307/1986: Occupational exposure limit Ethylbenzene values (Greece, 9/2021). TWA: 100 ppm 8 hours. TWA: 435 mg/m³ 8 hours. STEL: 125 ppm 15 minutes. STEL: 545 mg/m³ 15 minutes.

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X ylene	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). [xylene, mixture 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.
X 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.
Ethydhanzana	STEL: 150 ppm 15 minutes.
Ethylbenzene	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). Absorbed through skin.
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	STEL: 884 mg/m ³ 15 minutes. STEL: 200 ppm 15 minutes.
	TWA: 200 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
X ylene	
Kylene	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 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.
Xylene	Legislative Decree No. 819/2008. Title IX. Protection from
	chemical agents, carcinogens and mutagens (Italy, 6/2020). []
	Absorbed through skin.
	8 hours: 50 ppm 8 hours.
	8 hours: 221 mg/m ³ 8 hours.
	Short Term: 100 ppm 15 minutes.
	Short Term: 442 mg/m ³ 15 minutes.
n-Butyl acetate	EU OEL (Europe, 10/2019). Notes: list of indicative
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	occupational exposure limit values
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
	TWA: 241 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
Ethylbenzene	Legislative Decree No. 819/2008. Title IX. Protection from
	chemical agents, carcinogens and mutagens (Italy, 6/2020).
	Absorbed through skin.
	8 hours: 100 ppm 8 hours.
	8 hours: 442 mg/m ³ 8 hours.
	Short Term: 200 ppm 15 minutes.
	Short Term: 884 mg/m ³ 15 minutes.
	C C
Xylene	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).
	Absorbed through skin.
	TWA: 221 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 442 mg/m ³ 15 minutes.
n-Butyl acetate	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).
	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	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).
	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	Grand-Duchy Regulation 2016. Chemical agents. Annex I
	(Luxembourg, 3/2021). [] 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	Grand-Duchy Regulation 2016. Chemical agents. Annex I
	(Luxembourg, 3/2021).
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m ³ 8 hours.
Ethylbenzene	Grand-Duchy Regulation 2016. Chemical agents. Annex I
	(Luxembourg, 3/2021). Absorbed through skin.
	TWA: 100 ppm 8 hours.
	LIVVA. TOO PPHT O HOUIS.
	$TM/A \cdot 1/2$ mg/m ³ 8 hours
	TWA: 442 mg/m ³ 8 hours. STEL: 200 ppm 15 minutes.

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SECTION 8: Exposure controls/personal protection STEL: 884 mg/m³ 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/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m³ 15 minutes. n-Butyl acetate EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. TWA: 241 mg/m³ 8 hours. TWA: 50 ppm 8 hours. 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/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, 7/2021). [] Absorbed through skin. OEL, 8-h TWA: 210 mg/m³ 8 hours. STEL,15-min: 442 mg/m³ 15 minutes. n-Butyl acetate Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 7/2021). OEL, 8-h TWA: 241 mg/m³ 8 hours. STEL,15-min: 723 mg/m³ 15 minutes. Ethylbenzene Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 7/2021). Absorbed through skin. OEL, 8-h TWA: 215 mg/m³ 8 hours. STEL,15-min: 430 mg/m³ 15 minutes. **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/m³ 8 hours. n-Butyl acetate FOR-2011-12-06-1358 (Norway, 12/2022). 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. FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through Ethylbenzene skin. Carcinogen. Notes: indicative limit value TWA: 5 ppm 8 hours. TWA: 20 mg/m³ 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/m³ 8 hours. STEL: 200 mg/m³ 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/m³ 8 hours. STEL: 720 mg/m³ 15 minutes. Ethylbenzene Regulation of the Minister of Family, Labor and Social Policy Date of issue/Date of revision : 13/11/2023 : 16/09/2022 Version :2 12/30

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	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 ³ 8 hours. STEL: 400 mg/m ³ 15 minutes.
Xylene	Portuguese Institute of Quality (Portugal, 11/2014). [] TWA: 100 ppm 8 hours.
n-Butyl acetate	STEL: 150 ppm 15 minutes. 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 ³ 8 hours. VLA: 50 ppm 8 hours. Short term: 442 mg/m ³ 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 ³ 8 hours. VLA: 50 ppm 8 hours. Short term: 723 mg/m ³ 15 minutes.
Ethylbenzene	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/m ³ , (xylene, mixed isomers) 8 hours. TWA: 50 ppm, (xylene, mixed isomers) 8 hours. STEL: 442 mg/m ³ , (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 ³ , (Butyl acetates) 8 hours. TWA: 50 ppm, (Butyl acetates) 8 hours. STEL: 723 mg/m ³ , (Butyl acetates) 15 minutes. STEL: 150 ppm, (Butyl acetates) 15 minutes.
Ethylbenzene	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) 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. KTV: 150 ppm, 4 times per shift, 15 minutes.

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SECTION 8: Exposure controls/personal protection 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/m³ 8 hours. TWA: 100 ppm 8 hours. KTV: 884 mg/m³, 4 times per shift, 15 minutes. KTV: 200 ppm, 4 times per shift, 15 minutes. **Xylene** National institute of occupational safety and health (Spain, 4/2021). [] 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. National institute of occupational safety and health (Spain, n-Butyl acetate 4/2021). TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 724 mg/m³ 15 minutes. Ethylbenzene National institute of occupational safety and health (Spain, 4/2021). Absorbed through skin. TWA: 100 ppm 8 hours. TWA: 441 mg/m³ 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m³ 15 minutes. **X**ylene Work environment authority Regulation 2018:1 (Sweden, 9/2021). [xylene] Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 221 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m³ 15 minutes. Work environment authority Regulation 2018:1 (Sweden, n-Butyl acetate 9/2021). [butyl acetate] TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. Ethylbenzene Work environment authority Regulation 2018:1 (Sweden, 9/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 220 mg/m³ 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m³ 15 minutes. Work environment authority Regulation 2018:1 (Sweden, propylidynetrimethanol 9/2021). TWA: 5 mg/m³ 8 hours. SUVA (Switzerland, 1/2021). [] Absorbed through skin. **Xylene** TWA: 100 ppm 8 hours. TWA: 435 mg/m³ 8 hours. STEL: 200 ppm 15 minutes. STEL: 870 mg/m³ 15 minutes. n-Butyl acetate SUVA (Switzerland, 1/2021). TWA: 50 ppm 8 hours. TWA: 240 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 720 mg/m³ 15 minutes. SUVA (Switzerland, 1/2021). Absorbed through skin. Ethylbenzene TWA: 50 ppm 8 hours. TWA: 220 mg/m³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 220 mg/m³ 15 minutes.

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₩ylene	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: 50 ppm 8 hours. TWA: 220 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
n Rutul apotata	
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.
Ethylhanzana	TWA: 150 ppm 8 hours.
Ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin.
	U
	STEL: 552 mg/m ³ 15 minutes.
	STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours.
	TWA: 100 ppm 8 hours. TWA: 441 mg/m ³ 8 hours.
2-Methoxy-1-methylethyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 548 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 50 ppm 8 hours. TWA: 274 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
Phosphoric acid, solution	EH40/2005 WELs (United Kingdom (UK), 1/2020).
Phospholic acid, solution	
	STEL: 2 mg/m ³ 15 minutes. TWA: 1 mg/m ³ 8 hours.
Formaldehyde	EH40/2005 WELs (United Kingdom (UK), 1/2020).
Formaldenyde	STEL: 2.5 mg/m ³ 15 minutes.
	•
	STEL: 2 ppm 15 minutes.
	TWA: 2 ppm 8 hours. TWA: 2.5 mg/m ³ 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.	
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.
No exposure indices known.	
No exposure indices known.	
₩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.	
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No exposure indices known.	
No exposure indices known.	
Yylene	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.	
Yvlene	 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.	
X ylene	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 time at the end of the working week; at the end of the shift. BEI: 1110 μmol/mmol creatinine, mandelic acid [in urine]. Sampling time: at the end of the working week; at the end of the shift.
No exposure indices known.	
Xylene	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 origin of the determinant is in question., ethylbenzene [in endexhaled air]. Sampling time: not critical. BMGV: 0.7 g/g creatinine [Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative interpretation of the measurement is ambiguous. These analytes should be used as a screening test if a quantitative interpretation of the measurement is ambiguous.

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No exposure indices known. No exposure indices known.	HG 1218/2006, Annex 2, with subsequ additions (Romania, 3/2020) [Xylene] OBLV: 3 g/l, methylhippuric acid [in urin shift.	
No exposure indices known. No exposure indices known.	additions (Romania, 3/2020) [Xylene] OBLV: 3 g/l, methylhippuric acid [in urin	
No exposure indices known. No exposure indices known.	additions (Romania, 3/2020) [Xylene] OBLV: 3 g/l, methylhippuric acid [in urin	
No exposure indices known. No exposure indices known.	additions (Romania, 3/2020) [Xylene] OBLV: 3 g/l, methylhippuric acid [in urin	
No exposure indices known. No exposure indices known. No exposure indices known. No exposure indices known. No exposure indices known.	additions (Romania, 3/2020) [Xylene] OBLV: 3 g/l, methylhippuric acid [in urin	
No exposure indices known. No exposure indices known. No exposure indices known. No exposure indices known.	additions (Romania, 3/2020) [Xylene] OBLV: 3 g/l, methylhippuric acid [in urin	
No exposure indices known. No exposure indices known. No exposure indices known. Kylene	additions (Romania, 3/2020) [Xylene] OBLV: 3 g/l, methylhippuric acid [in urin	
No exposure indices known. No exposure indices known. Kylene	additions (Romania, 3/2020) [Xylene] OBLV: 3 g/l, methylhippuric acid [in urin	
No exposure indices known. ≪ylene	additions (Romania, 3/2020) [Xylene] OBLV: 3 g/l, methylhippuric acid [in urin	
Kylene	additions (Romania, 3/2020) [Xylene] OBLV: 3 g/l, methylhippuric acid [in urin	
	additions (Romania, 3/2020) [Xylene] OBLV: 3 g/l, methylhippuric acid [in urin	
Ethylbenzene		-
	HG 1218/2006, Annex 2, with subsequ additions (Romania, 3/2020)	
Kylene	OBLV: 1.5 g/g creatinine, mandelic acid end of the week. Government regulation SR c. 355/200	
	[xylene, all isomers] BLV: 781 μmol/mmol creatinine, sum of acids [in urine]. Sampling time: at the end BLV: 1334 mg/g creatinine, sum of 2,3, urine]. Sampling time: at the end of expo BLV: 10355 μmol/l, sum of 2,3,4-methy Sampling time: at the end of exposure or BLV: 14.6 μmol/l, xylene [in blood]. Sam exposure or work shift. BLV: 2000 mg/l, sum of 2,3,4-methylhip Sampling time: at the end of exposure or BLV: 1.5 mg/l, xylene [in blood]. Sampling exposure or work shift.	f 2,3,4-methylhippuroic d of exposure or work shi 4-methylhippuroic acids [sure or work shift. lhippuroic acids [in urine] work shift. npling time: at the end of opuroic acids [in urine]. work shift. ng time: at the end of
Ethylbenzene	Government regulation SR c. 355/2000 BLV: 799 μmol/mmol creatinine, mander phenylglyoxylic acid [in urine]. Sampling is exposure or work shift; long-term exposu- shifts. BLV: 7.44 μmol/mmol creatinine, 2 or 4 Sampling time: at the end of exposure or exposure: after several work shifts. BLV: 1067 mg/g creatinine, mandelic ac- acid [in urine]. Sampling time: at the end long-term exposure: after several work s BLV: 8.03 mg/g creatinine, 2 or 4-etylfe time: at the end of exposure or work shift after several work shifts. BLV: 10590 μmol/l, mandelic acid and p urine]. Sampling time: at the end of expo term exposure: after several work shifts. BLV: 98.6 μmol/l, 2 or 4-etylfenol [in urine end of exposure or work shift; long-term work shifts. BLV: 1600 mg/l, mandelic acid and phe Sampling time: at the end of exposure or exposure: after several work shifts.	elic acid and time: at the end of ure: after several work -etylfenol [in urine]. work shift; long-term cid and phenylglyoxylic of exposure or work shift hifts. nol [in urine]. Sampling t; long-term exposure: ohenylglyoxylic acid [in sure or work shift; long- ne]. Sampling time: at the exposure: after several nylglyoxylic acid [in urine]
te of issue/Date of revision :	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.
No exposure indices known.	
¥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.

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

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Xylene	DNEL	Long term	65.3 mg/m ³	General	Local
		Inhalation	Ũ	population	
	DNEL	Short term	260 mg/m ³	General	Local
		Inhalation	J	population	
	DNEL	Short term	260 mg/m ³	General	Systemic
	DITLE	Inhalation	200 mg/m	population	e yotonno
	DNEL	Long term	221 mg/m ³	Workers	Local
	DIVLL	Inhalation	22 i mg/m	Workers	Loodi
	DNEL	Long term Oral	12.5 mg/	General	Systemic
	DINCL	Long term Oral	kg bw/day	population	Oysternic
	DNEL	Long term	65.3 mg/m ³	General	Systemic
	DNLL	Inhalation	05.5 mg/m	population	Systemic
	DNEL		125 mg/kg	General	Sustamia
	DNEL	Long term Dermal			Systemic
			bw/day	population	O. under maile
	DNEL	Long term Dermal	212 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term	221 mg/m ³	Workers	Systemic
		Inhalation			
	DNEL	Short term	442 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Short term	442 mg/m ³	Workers	Systemic
		Inhalation			
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	5
	DNEL	Short term Dermal	11 mg/kg	Workers	Systemic
			bw/day		- ,
	DNEL	Long term	35.7 mg/m ³	General	Local
	DITE	Inhalation	00.1 mg/m	population	2000
	DNEL	Short term	300 mg/m ³	General	Local
	DIVLL	Inhalation	ooo mg/m	population	Local
	DNEL	Short term	300 mg/m ³	General	Systemic
	DNEL	Inhalation	Juo my/m	population	Systemic
	DNEL		200 ma/m3	Workers	
	DNEL	Long term	300 mg/m ³	vvorkers	Local
		Inhalation			
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	DNEL	Short term	600 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Short term Inhalation	600 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	3.4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	7 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	12 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	48 mg/m ³	Workers	Systemic
Ethylbenzene	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	15 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	77 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	293 mg/m ³	Workers	Local
	DMEL	Long term Inhalation	442 mg/m ³	Workers	Local
	DMEL	Short term Inhalation	884 mg/m³	Workers	Systemic

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection 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
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	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

<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	:

Ingredient name		°C	°F	Method
<mark>p</mark> -Butyl acetate		126	258.8	OECD 103
Ethylbenzene		136.1	277	OECD 104
Flammability	: Not ava	ilable.		
Lower and upper explosion limit	: Lower: Upper:			
Flash point	: Closed	cup: 25°C (77°F)		
Auto-ignition temperature	:			
Ingredient name		°C	°F	Method
p-Butyl acetate		415	779	EU A.15
Xylene		432	809.6	
Decomposition temperature	: Not ava	ilable.		
рН	: Not app	olicable.		
Viscosity	: Kinema	itic (40°C): >20.5 n	nm²/s	
Solubility(ies)	:			
Not available.				
Solubility in water	: Not ava	ilable.		
Partition coefficient: n-octano water	l/ : Not app	blicable.		
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SECTION 9: Physical and chemical properties

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Vapour pressure

	Va	pour Press	ure at 20°C	V	apour pres	ssure 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/cm³				
apour density	: Not	available.				
Explosive properties	: Not	available.				
Dxidising properties	: Not	available.				
Particle characteristics						
Median particle size	: Not	applicable.				

SECTION 10: Stability and reactivity

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
10.5 Incompatible materials	: Reactive or incompatible with the following materials: oxidising materials
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/ingredient name	Result	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 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
	6696.37 mg/kg 54.91 mg/l

Irritation/Corrosion

SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
Manium 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	
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	

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

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

Conclusion/Summary	÷	Based on available data, the classification criteria are not met.
Reproductive toxicity		
Conclusion/Summary	:	Based on available data, the classification criteria are not met.
<u>Teratogenicity</u>		
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	Category 2	oral, inhalation	-
Ethylbenzene	Category 2	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.		

SECTION 11: Toxico	logical information
Symptoms related to the phy	sical, 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.
Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects	Not available.Not available.Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	ects
Not available.	
Conclusion/Summary General Carcinogenicity Mutagenicity Reproductive toxicity	 Not available. May cause damage to organs through prolonged or repeated exposure. No known significant effects or critical hazards. No known significant effects or critical hazards. 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
iitanium 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 Acute LC50 18000 μg/l Fresh water	Crustaceans - Artemia salina Fish - Pimephales promelas	48 hours 96 hours

Conclusion/Summary

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

12.2 Persistence and degradability

Conclusion/Summary

: This product has not been tested for biodegradation.

12.3 Bioaccumulative potential

SECTION 12: Ecological information				
Product/ingredient name	LogPow	BCF	Potential	
Kylene n-Butyl acetate Ethylbenzene	3.12 2.3 3.6	8.1 to 25.9 - -	Low Low Low	

12.4 Mobility in soil	
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

12.1 Maata traatmart mat	ande
13.1 Waste treatment met	ious
<u>Product</u>	
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*, 200127*
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA	
14.1 UN number or ID number	UN1263	UN1263	UN1263	UN1263	
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT	
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SECTION 14:	Transport info	ormation			
14.3 Transport hazard class(es)	3	3	3	3	
14.4 Packing group					
14.5 Environmental hazards	No.	No.	No.	No.	
Additional informa	<u>tion</u>				
ADR/RID	packa		<u>1</u> This class 3 viscous liq cording to 2.2.3.1.5.1.	uid is not subject to regulation in	
ADN		 Viscous liquid exception This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1. 			
IMDG	: <u>Visco</u>	: <u>Viscous liquid exception</u> This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.			
14.6 Special precau user	uprigł	-	e that persons transporti	oort in closed containers that are ng the product know what to do in	
14.7 Maritime trans bulk according to I instruments		elevant/applicable du	e to nature of the produc	xt.	

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

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			%	Designatio	n [Usage]			
MAPUR P			≥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 applicab	le.					
Ozone depleting substance	es	<u>(1005/2009/E</u>	<u>:U)</u>					
Not listed.								
Prior Informed Consent (P	<u>IC)</u>	<u>(649/2012/E</u>	<u>U)</u>					
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SECTION 15: Regulatory information

Not listed.

Persistent Organic Pollutants Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Dan	ger	<u>criteria</u>

Category			
P5c			
ational 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 B
titanium dioxide		Listed	-

MA	L-code	

Ethylbenzene

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

Listed

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: 3-3

: 3-3

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

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

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.

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

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

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

During non-atomising spraying in existing* facilities of the combined-cabin, spray-

SECTION 15: Regulatory information

SECTION 15: Regula			
		cabin and spray-booth type where the operator is working	inside the spray zone.
		- Air-supplied full mask, arm protectors and apron must be	e worn.
		During all spraying where atomisation occurs in cabins or operator is inside the spray zone and during spraying outs or booth.	
		- Air-supplied full mask, coveralls and hood must be worn.	
		Drying: Items for drying/drying ovens that are temporarily rack trolleys, etc, must be equipped with a mechanical ext fumes from wet items from passing through workers' inha	naust system to prevent
		Polishing: When polishing treated surfaces, a mask with When machine grinding, eye protection must be worn. Wo worn.	
		Caution The regulations contain other stipulations in add	ition to the above.
		*See Regulations.	
Restrictions on use	:	Not to be used by professional users below 18 years of ag Working Environment Authorities Executive Order regardi	
List of undesirable substances	:	Not listed	
Carcinogenic waste	:	Waste containers must be labeled: Contains a substance by Danish working environment legislation on cancer risks	-
Finland			
<u>France</u>			
Social Security Code, Articles L 461-1 to L 461-7		n-Butyl acetate RC	5 4bis, RG 84 5 84 5 84
Reinforced medical surveillance	:	Act of July 11, 1977 determining the list of activities which medical surveillance: not applicable	require reinforced
<u>Germany</u>			
Storage class (TRGS 510)	:	3	
Hazardous incident ordina	nc	<u>e</u>	
This product is controlled un Danger criteria	de	r the Germany Hazardous Incident Ordinance.	
Category			Reference number

outogoly		
P5c		1.2.5.3
Hazard class for water	: 2	i
Technical instruction on air quality control	: TA-Luft Number 5.2.5: 69.5% TA-Luft Class I - Number 5.2.5: 4.1%	
Italy		
D.Lgs. 152/06	: Not determined.	
Netherlands		
Water Discharge Policy (ABM)	: Z(1) Non biodegradable substances with hazar environment (carcinogenicity/ mutagenicity/ rep toxicity or persistence). Decontamination effort	protoxicity/ bioacumulative potential/
<u>Norway</u>		
<u>Sweden</u>		
Flammable liquid class (SRVFS 2005:10)	: 2 a	
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SECTION 15: Regulatory information
Switzerland
VOC content : VOC (w/w): 35.4%
International regulations
Chemical Weapon Convention List Schedules I, II & III Chemicals
Not listed.
Montreal Protocol
Not listed.
Stockholm Convention on Persistent Organic Pollutants
Not listed.
Rotterdam Convention on Prior Informed Consent (PIC)
Not listed.
UNECE Aarhus Protocol on POPs and Heavy Metals
Not listed.

15.2 Chemical safety	1	This product contains substances for which Chemical Safety Assessments are still
assessment		required.

SECTION 16: Other information

✓ Indicates information that has changed from previously issued version.

: ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
N/A = Not available
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
SGG = Segregation Group
vPvB = Very Persistent and Very Bioaccumulative

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

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

Full text of abbreviated H statements

⊮ 225	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.	
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
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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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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