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

SAFETY DATA SHEET



TEKNOMASTIC COMBI 80-500 - All variants

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

1.1 Product identifier

Product name

: FEKNOMASTIC COMBI 80-500 - All variants

1.2 Relevant identified uses of the substance or mixture and uses advised againstProduct use: Paint.

1.3 Details of the supplier of the safety data sheet

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091. e-mail address of person : Prod-safe@teknos.com

responsible for this SDS

National contact

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

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number: In an emergency, call 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

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

Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 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	1	Warning
Hazard statements	:	H226 - Flammable liquid and vapour. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements		
Prevention	:	 P280 - Wear protective gloves. Wear eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273 - Avoid release to the environment. P261 - Avoid breathing vapour.
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SECTION 2: Hazards identification

Response	4	P362 + P364 - Take off contaminated clothing and wash it before reuse.
Storage	1	Not applicable.
Disposal	1	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	1	Contains: Bis[4-(2,3-epoxypropoxy)phenyl]propane and Phenol, methylstyrenated
Supplemental label elements	:	Contains epoxy constituents. May produce an allergic reaction. 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 contains substances that are assessed to be a PBT or a vPvB, refer to Section 3.2.
Other hazards which do not result in classification	1	None known.

SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Bís[4-(2,3-epoxypropoxy) phenyl]propane	REACH #: 01-2119456619-26 EC: 216-823-5 CAS: 1675-54-3 Index: 603-073-00-2	≥10 - <25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	Skin Irrit. 2, H315: C ≥ 5% Eye Irrit. 2, H319: C ≥ 5%	[1]
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]
Phenol, methylstyrenated	REACH #: 01-2119555274-38 EC: 700-960-7 CAS: 68512-30-1	≤10	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412	-	[1] [3]
Benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5	≤5	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319	ATE [Oral] = 1230 mg/kg ATE [Inhalation (dusts and mists)] = 4.2 mg/l	[1]
Ethylbenzene	REACH #:	≤3	Flam. Liq. 2, H225	ATE [Inhalation	[1] [2]

SECTION 3: Composition/information on ingredients

SECTION 3. C	omposition/informat		ingreulents		
	01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4		Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) (oral, inhalation) Asp. Tox. 1, H304	(vapours)] = 11 mg/	
iso-butanol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	<3	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336 See Section 16 for the full text of the H statements declared above.	-	[1]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Туре

Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

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

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention 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 <u>Over-exposure signs/symptoms</u>

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SECTION 4: First aid measures Eye contact : Adverse symptoms may include the following: pain or irritation watering redness Inhalation : No specific data. **Skin contact** : Adverse symptoms may include the following: irritation redness Ingestion : No specific data. 4.3 Indication of any immediate medical attention and special treatment needed Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. **Specific treatments** : No specific treatment. **SECTION 5: Firefighting measures**

5.1 Extinguishing media		
Suitable extinguishing media	:	Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	:	Do not use water jet.
5.2 Special hazards arising f	iron	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 metal oxide/oxides
5.3 Advice for firefighters		
Special protective actions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures				
For non-emergency : personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.			
For emergency responders :	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".			

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SECTION 6: Accidental release measures

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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 materia	I for containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
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

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SECTION 7: Handling and storage

7.3 Specific end use(s)

solutions

Recommendations Industrial sector specific

- : Not available.
- : Not available.

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Bís[4-(2,3-epoxypropoxy)phenyl]propane	Regulation on Limit Values - MAC (Austria, 4/2021). [1,2-Epoxy 3-(tolyloxy)propane (all isomers)] TWA: 10 ppm 8 hours. TWA: 70 mg/m ³ 8 hours. PEAK: 20 ppm, 4 times per shift, 15 minutes. PEAK: 140 mg/m ³ , 4 times per shift, 15 minutes.
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.
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.
iso-butanol	Regulation on Limit Values - MAC (Austria, 4/2021). [Butanol (all isomers except 2-methyl-2-propanol)] PEAK: 200 ppm, 4 times per shift, 15 minutes. TWA: 150 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. PEAK: 600 mg/m ³ , 4 times per shift, 15 minutes.
X ylene	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.
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.
iso-butanol	Limit values (Belgium, 5/2021). TWA: 50 ppm 8 hours. TWA: 154 mg/m³ 8 hours.
₩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/m ³ 8 hours. Limit value 15 min: 442 mg/m ³ 15 minutes. Limit value 15 min: 100 ppm 15 minutes. Limit value 8 hours: 50 ppm 8 hours.
Benzyl alcohol	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Limit value 8 hours: 5 mg/m ³ 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.
X ylene	Ministry of Economy, Labour and Entrepreneurship ELV/
	STELV (Croatia, 1/2021). [xylene (all isomers)] Absorbed
	through skin.
	STELV: 442 mg/m ³ 15 minutes. STELV: 100 ppm 15 minutes.
	ELV: 221 mg/m ³ 8 hours.
Ethylbenzene	ELV: 50 ppm 8 hours. Ministry of Economy, Labour and Entrepreneurship ELV/
	STELV (Croatia, 1/2021). Absorbed through skin.
	STELV: 884 mg/m ³ 15 minutes.
	STELV: 200 ppm 15 minutes. ELV: 442 mg/m ³ 8 hours.
	ELV: 100 ppm 8 hours.
iso-butanol	Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). Absorbed through skin.
	STELV: 231 mg/m ³ 15 minutes.
	STELV: 75 ppm 15 minutes.
	ELV: 154 mg/m ³ 8 hours. ELV: 50 ppm 8 hours.
X ylene	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.
Ethylbenzene	TWA: 221 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.
X ylene	Government regulation of Czech Republic PEL/NPK-P (Czech
	Republic, 10/2022). [xylene, technical mixture of isomers and all isomers] Absorbed through skin.
	TWA: 200 mg/m ³ 8 hours.
	TWA: 45.4 ppm 8 hours. STEL: 400 mg/m³ 15 minutes.
	STEL: 90.8 ppm 15 minutes.
Benzyl alcohol	Government regulation of Czech Republic PEL/NPK-P (Czech
	Republic, 10/2022). TWA: 40 mg/m³ 8 hours.
	TWA: 8.88 ppm 8 hours.
	STEL: 80 mg/m ³ 15 minutes. STEL: 17.76 ppm 15 minutes.
Ethylbenzene	Government regulation of Czech Republic PEL/NPK-P (Czech
	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.
iso-butanol	STEL: 113.5 ppm 15 minutes. Government regulation of Czech Republic PEL/NPK-P (Czech
	Republic, 10/2022). [Butanol (all isomers)] Absorbed through
	skin. TWA: 300 mg/m³ 8 hours.
	TWA: 97.5 ppm 8 hours.
	STEL: 600 mg/m ³ 15 minutes.
	STEL: 195 ppm 15 minutes.
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Xylene	Working Environment Authority (Denmark, 6/2022). [Xylenes, all isomers] Absorbed through skin. TWA: 25 ppm 8 hours.
Ethylbenzene	TWA: 109 mg/m ³ 8 hours. STEL: 442 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. Working Environment Authority (Denmark, 6/2022). Absorbed
	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.
iso-butanol	Working Environment Authority (Denmark, 6/2022). [Butanol, all isomers] Absorbed through skin. CEIL: 50 ppm CEIL: 150 mg/m ³
₩ylene	Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). [Xylenes] Absorbed through skin. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. STEL: 450 mg/m ³ 15 minutes. TWA: 200 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. STEL: 200 ppm 15 minutes.
iso-butanol	Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). TWA: 150 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
₩ylene	EU OEL (Europe, 1/2022). [xylene, mixed isomers pure] Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 50 ppm 8 hours. TWA: 221 mg/m ³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m ³ 15 minutes.
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.
₩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. STEL: 100 ppm 15 minutes.
Benzyl alcohol	Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). TWA: 45 mg/m ³ 8 hours. TWA: 10 ppm 8 hours.
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.
iso-butanol	Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). [Butanols] Absorbed through skin. TWA: 50 ppm 8 hours.
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	/personal protection
	TWA: 150 mg/m ³ 8 hours.
	STEL: 75 ppm 15 minutes.
7.	STEL: 230 mg/m ³ 15 minutes.
Kylene	Ministry of Labor (France, 10/2022). [xylenes, mixed isomers,
	pure] Absorbed through skin. Notes: Binding regulatory limi 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.
	TWA: 50 ppm 8 hours.
Ethylbenzene	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.
so-butanol	Ministry of Labor (France, 10/2022). Notes: Permissible limit
	values (circulars) TWA: 50 ppm 8 hours.
	TWA: 50 mg/m ³ 8 hours.
Bis[4-(2,3-epoxypropoxy)phenyl]propane Xylene	DFG MAC-values list (Germany, 7/2022). Skin sensitiser. TRGS 900 OEL (Germany, 6/2022). [xylene] Absorbed through
Aylene	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/m ³ 8 hours.
	PEAK: 440 mg/m ³ , 4 times per shift, 15 minutes.
Benzyl alcohol	DFG MAC-values list (Germany, 7/2022). Absorbed through
	skin. PEAK: 44 mg/m³, 4 times per shift, 15 minutes.
	PEAK: 10 ppm, 4 times per shift, 15 minutes.
	TWA: 22 mg/m ³ 8 hours.
	TWA: 5 ppm 8 hours.
	TRGS 900 OEL (Germany, 6/2022). Absorbed through skin.
	PEAK: 10 ppm 15 minutes.
	PEAK: 44 mg/m ³ 15 minutes.
	TWA: 22 mg/m ³ 8 hours. TWA: 5 ppm 8 hours.
Ethylbenzene	TRGS 900 OEL (Germany, 6/2022). Absorbed through skin.
,	TWA: 88 mg/m ³ 8 hours.
	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.
so-butanol	TRGS 900 OEL (Germany, 6/2022).
	TWA: 310 mg/m³ 8 hours. PEAK: 310 mg/m³ 15 minutes.
	TWA: 100 ppm 8 hours.
	PEAK: 100 ppm 15 minutes.
	DFG MAC-values list (Germany, 7/2022).
	TWA: 100 ppm 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes.

	TWA: 310 mg/m ³ 8 hours.
V ilana	PEAK: 310 mg/m ³ , 4 times per shift, 15 minutes.
Kylene (Viene)	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.
Ethylbenzene	STEL: 650 mg/m ³ 15 minutes. 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.
so-butanol	Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021).
	TWA: 100 ppm 8 hours.
	TWA: $300 \text{ mg/m}^3 8 \text{ hours.}$
	STEL: 100 ppm 15 minutes.
	STEL: 300 mg/m ³ 15 minutes.
Viene	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.
thulbonzono	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.
Thubanzana	TWA: 25 ppm 8 hours.
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.
	TWA: 50 ppm 8 hours.
so-butanol	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021)
	[butanol, all isomers, except n-butanol] Absorbed through
	skin.
	STEL: 150 mg/m ³ 15 minutes.
	STEL: 50 ppm 15 minutes.
kylene	NAOSH (Ireland, 5/2021). [xylene mixed isomers] Absorbed
	through skin. Notes: EU derived Occupational Exposure Lin 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.
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: 200 ppm 15 minutes. OELV-15min: 884 mg/m ³ 15 minutes.
	CLEV Tomin. OUT ingini To minutes.

SECTION 8: Exposure controls/personal protection NAOSH (Ireland, 5/2021). Notes: Advisory Occupational iso-butanol Exposure Limit Values (OELVs) OELV-8hr: 50 ppm 8 hours. OELV-8hr: 150 mg/m³ 8 hours. OELV-15min: 75 ppm 15 minutes. OELV-15min: 225 mg/m³ 15 minutes. **X**ylene 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/m³ 8 hours. Short Term: 100 ppm 15 minutes. Short Term: 442 mg/m³ 15 minutes. Legislative Decree No. 819/2008. Title IX. Protection from Ethylbenzene chemical agents, carcinogens and mutagens (Italy, 6/2020). Absorbed through skin. 8 hours: 100 ppm 8 hours. 8 hours: 442 mg/m³ 8 hours. Short Term: 200 ppm 15 minutes. Short Term: 884 mg/m³ 15 minutes. **X**ylene Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). [Xylenes] Absorbed through skin. TWA: 221 ma/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m³ 15 minutes. Benzyl alcohol Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). TWA: 5 mg/m³ 8 hours. Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). Ethylbenzene Absorbed through skin. TWA: 442 mg/m³ 8 hours. TWA: 100 ppm 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m³ 15 minutes. Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). iso-butanol [Butylalcohol] TWA: 10 mg/m³ 8 hours. **X**ylene Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). [xylene, mixed isomers, pure] Absorbed through skin. STEL: 442 mg/m³ 15 minutes.

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

Absorbed through skin. TWA: 5 mg/m³ 8 hours.

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.

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

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.

Benzyl alcohol

Ethylbenzene

iso-butanol

Xylene

Ethylbenzene

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

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

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

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

Grand-Duchy Regulation 2016. Chemical agents. Annex I

	(Luxembourg, 3/2021). Absorbed through skin. TWA: 100 ppm 8 hours. TWA: 442 mg/m ³ 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m ³ 15 minutes.
Xylene	EU OEL (Europe, 1/2022). [xylene, mixed isomers pure] Absorbed through skin. Notes: list of indicative occupations exposure limit values TWA: 50 ppm 8 hours. TWA: 221 mg/m ³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m ³ 15 minutes.
Ethylbenzene	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: lis of indicative occupational exposure limit values TWA: 100 ppm 8 hours. TWA: 442 mg/m ³ 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m ³ 15 minutes.
Xylene	Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). [xylenes (all isomers)] Absorbed through skin.
Ethylbenzene	 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 (Netherlands, 12/2022). Absorbed through skin. 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.
Kylene	FOR-2011-12-06-1358 (Norway, 12/2022). [Xylene, all isomers Absorbed through skin. Notes: indicative limit value TWA: 25 ppm 8 hours. TWA: 108 mg/m ³ 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/m ³ 8 hours.
so-butanol	FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through skin. CEIL: 75 mg/m ³ CEIL: 25 ppm
Kylene	Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). [xylene – mixed isomers (1,2-, 1,3-, 1,4-)] Absorbed through skin. TWA: 100 mg/m ³ 8 hours.
3enzyl alcohol	STEL: 200 mg/m ³ 15 minutes. Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). TWA: 240 mg/m ³ 8 hours
Ethylbenzene	TWA: 240 mg/m ³ 8 hours. Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). Absorbed through skin. TWA: 200 mg/m ³ 8 hours.

iso-butanol	STEL: 400 mg/m ³ 15 minutes. Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). Absorbed through skin. TWA: 100 mg/m ³ 8 hours. STEL: 200 mg/m ³ 15 minutes.
₩ylene	Portuguese Institute of Quality (Portugal, 11/2014). [Xylene] TWA: 100 ppm 8 hours. STEL: 150 ppm 15 minutes.
Ethylbenzene	Portuguese Institute of Quality (Portugal, 11/2014). TWA: 20 ppm 8 hours.
iso-butanol	Portuguese Institute of Quality (Portugal, 11/2014). TWA: 50 ppm 8 hours.
₩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.
Ethylbenzene	Short term: 100 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.
iso-butanol	HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). VLA: 100 mg/m ³ 8 hours. VLA: 33 ppm 8 hours. Short term: 200 mg/m ³ 15 minutes. Short term: 66 ppm 15 minutes.
₩ylene	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.
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.
iso-butanol	Government regulation SR c. 355/2006 (Slovakia, 9/2020). [Butyl alkohols] TWA: 310 mg/m ³ , (Butyl alkohols) 8 hours. TWA: 100 ppm, (Butyl alkohols) 8 hours.
₩ylene	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). [xylene (mixture of isomers)] Absorbed through skin. TWA: 221 mg/m 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.
Benzyl alcohol	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). Absorbed through skin. KTV: 10 ppm, 4 times per shift, 15 minutes. KTV: 44 mg/m ³ , 4 times per shift, 15 minutes. TWA: 5 ppm 8 hours. TWA: 22 mg/m ³ 8 hours.
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Ethylbenzene	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). Absorbed through skin.
	TWA: 442 mg/m 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.
iso-butanol	Regulation on protection of workers from the risks related to
	exposure to chemical substances at work (Slovenia, 5/2021). TWA: 310 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
	KTV: 310 mg/m ³ , 4 times per shift, 15 minutes.
	KTV: 100 ppm, 4 times per shift, 15 minutes.
Xylene	National institute of occupational safety and health (Spain,
, ,	4/2022). [Xylene, mixture of isomers] Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 221 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 442 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/m³ 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 884 mg/m ³ 15 minutes.
iso-butanol	National institute of occupational safety and health (Spain,
	4/2022).
	TWA: 50 ppm 8 hours.
	TWA: 154 mg/m ³ 8 hours.
X ylene	Work environment authority Regulation 2018:1 (Sweden,
,	9/2021). [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.
Ethylbenzene	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.
iso-butanol	STEL: 884 mg/m ³ 15 minutes. Work environment authority Regulation 2018:1 (Sweden,
	9/2021). Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 150 mg/m ³ 8 hours.
	STEL: 75 ppm 15 minutes.
	STEL: 250 mg/m ³ 15 minutes.
X ylene	SUVA (Switzerland, 1/2023). [Xylenes (all isomers)] Absorbed
	through skin.
	TWA: 50 ppm 8 hours.
	TWA: 220 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 440 mg/m ³ 15 minutes.
Benzyl alcohol	SUVA (Switzerland, 1/2023). Absorbed through skin.
	TWA: 5 ppm 8 hours. Form: vapour and aerosols
Ethylbenzeno	TWA: 22 mg/m ³ 8 hours. Form: vapour and aerosols
Ethylbenzene	SUVA (Switzerland, 1/2023). Absorbed through skin. TWA: 50 ppm 8 hours.
	TWA: 50 ppm 8 hours. TWA: 220 mg/m ³ 8 hours.
	STEL: 50 ppm 15 minutes.
	STEL: 220 mg/m ³ 15 minutes.
iso-butanol	SUVA (Switzerland, 1/2023).
	TWA: 50 ppm 8 hours.
	TWA: 150 mg/m ³ 8 hours.
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	STEL: 50 ppm 15 minutes. STEL: 150 mg/m ³ 15 minutes.			
X 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: 220 mg/m ³ 8 hours.			
	STEL: 100 ppm 15 minutes.			
Ethylbenzene	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.			
iso-butanol	EH40/2005 WELs (United Kingdom (UK), 1/2020).			
	STEL: 231 mg/m ³ 15 minutes.			
	STEL: 75 ppm 15 minutes.			
	TWA: 154 mg/m ³ 8 hours.			
	TWA: 50 ppm 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: 274 mg/m ³ 8 hours.			
	STEL: 100 ppm 15 minutes.			

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 yea 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.
₩ylene	 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.	
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₩ylene	Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015) [Xylene] Biological limit values: 820 µmol/mmol creatinine, methylhippuric acid [in urine]. Sampling time: end of the shift. Biological limit values: 1400 mg/g creatinine, methylhippuric acid [in urine]. Sampling time: end of the shift.
Ethylbenzene	Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015) Biological limit values: 1100 μmol/mmol creatinine, almond acid [in urine]. Sampling time: end of the shift. Biological limit values: 1500 mg/g creatinine, almond acid [in urine]. Sampling time: end of the shift.
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
₩ylene	Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) [Xylene] BEI: 5 mmol/I, 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.	
₩ylene	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.	
₩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.	

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▼ylene		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 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.		
K ylene		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.
₩ylene		HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2020) [Xylene] OBLV: 3 g/l, methylhippuric acid [in urine]. Sampling time: end of shift.
Ethylbenzene		HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2020) OBLV: 1.5 g/g creatinine, mandelic acid [in urine]. Sampling time: end of the week.
₩ylene		 Government regulation SR c. 355/2006 (Slovakia, 9/2020) [xylene, all isomers] BLV: 781 µmol/mmol creatinine, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1334 mg/g creatinine, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 10355 µmol/l, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 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.
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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; long-term exposure: after several work shifts. BLV: 8.03 mg/g creatinine, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 10590 μmol/l, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long- term exposure: after several work shifts. BLV: 10590 μmol/l, 2 or 4-etylfenol [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 or work shift; long-term exposure: after several work shifts. BLV: 1600 mg/l, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 12 mg/l, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shifts.
₩ylene	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) [xylene (all isomers)] BAT: 2 g/l, methylhippuric acid (all isomers) [in urine]. Sampling time: at the end of the work shift.
Ethylbenzene	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) BAT: 250 mg/g creatinine, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of the work shift.
₩ylene	National institute of occupational safety and health (Spain, 4/2022) [Xylenes] VLB: 1 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift.
Ethylbenzene	National institute of occupational safety and health (Spain, 4/2022) VLB: 700 mg/g creatinine, sum of mandelic acid and acid and phenylglyoxylic acid [in urine]. Sampling time: end of workweek.
No exposure indices known.	
⊠y lene	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.
₩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.

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procedures

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

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Bis[4-(2,3-epoxypropoxy)phenyl]	DNEL	Long term Dermal	89.3 µg/kg	General	Systemic
propane			bw/day	population	
	DNEL	Long term Oral	0.5 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	0.75 mg/	Workers	Systemic
		Ū	kg bw/day		-
	DNEL	Long term	0.87 mg/m ³	General	Systemic
		Inhalation	5	population	,
	DNEL	Long term	4.93 mg/m ³		Systemic
		Inhalation			-)
Xylene	DNEL	Long term	65.3 mg/m ³	General	Local
, cylono	BILLE	Inhalation	00.0 mg/m	population	Loodi
	DNEL	Short term	260 mg/m ³	General	Local
	DINCL	Inhalation	200 mg/m	population	LUCAI
	DNEL		260 mg/m^3	General	Svotomio
	DINEL	Short term	260 mg/m ³		Systemic
		Inhalation	001	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			- ,
	DNEL	Short term	442 mg/m ³	Workers	Local
	0	Inhalation	· · _ · · g/ · · ·	Tronkere.	Local
	DNEL	Short term	442 mg/m ³	Workers	Systemic
	DINCE	Inhalation	442 mg/m	WOINCIS	Oysternie
Phanol methylatyronatod	DNEL		0.2 malka	General	Systemic
Phenol, methylstyrenated	DINEL	Long term Oral	0.2 mg/kg		Systemic
		Long town-	bw/day	population	C. unterrette
	DNEL	Long term	0.348 mg/	General	Systemic
	D	Inhalation	m ³	population	
	DNEL	Long term	1.41 mg/m ³	Workers	Systemic
		Inhalation			
	DNEL	Long term Dermal	1.67 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term Dermal	3.5 mg/kg	Workers	Systemic
			bw/day		
Benzyl alcohol	DNEL	Long term Oral	4 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	4 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term	5.4 mg/m ³	General	Systemic
		Inhalation		population	- ,
	DNEL	Long term Dermal	8 mg/kg	Workers	Systemic
		Long torm Dennal	bw/day		Cystonic
	DNEL	Short term Oral		General	Systemic
	DINEL		20 mg/kg		Systemic
	1		bw/day	population	

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CTION 8: Exposu	ire controls/p	personal prote	ction		
	DNEL	Short term Dermal	20 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	22 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	27 mg/m³	General population	Systemic
	DNEL	Short term Dermal	40 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	110 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/m³	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
so-butanol	DNEL	Long term Inhalation	55 mg/m³	General population	Local
	DNEL	Long term Inhalation	310 mg/m ³	Workers	Local

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 measu	res	
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: 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
		> 8 hours (breakthrough time): 4H / Silver Shield® 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
jso-butanol		108	226.4	OECD 103
Ethylbenzene		136.1	277	OECD 104
Flammability	: Not ava	ilable.	+	•
Lower and upper explosion limit	: <mark>Iz</mark> ower: 0 Upper: 1			
Flash point	: Closed	cup: 25°C (77°F)		
Auto-ignition temperature	:			
Ingredient name		°C	°F	Method
<mark>is</mark> o-butanol		415	779	
Phenol, methylstyrenated		>385	>725	DIN 51794
Decomposition temperature	: Not ava	ilable.		
рН	: Not app	olicable.		
Viscosity	: 🕅 Kinema	tic (40°C): >20.5 m	nm²/s	
Solubility(ies)	:			
Not available.				
Solubility in water	: Not ava	ilable.		
Partition coefficient: n-octanol/ water	/ : Not app	licable.		
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SECTION 9: Physical and chemical properties

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Vapour pressure

	Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
iso-butanol	<12.00102	<1.6	DIN EN 13016-2			
Ethylbenzene	9.30076	1.2				
Relative density	: Not	available.			•	•
Density	: 1.6 (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
Bis[4-(2,3-epoxypropoxy) phenyl]propane	LD50 Dermal	Rabbit	20 g/kg	-
Xylene	LC50 Inhalation Vapour	Rat	21.7 mg/l	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
Benzyl alcohol	LC50 Inhalation Dusts and	Rat - Male,	4200 mg/m ³	4 hours
-	mists	Female		
	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1230 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	-
iso-butanol	LC50 Inhalation Vapour	Rat	19200 mg/m ³	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	2460 mg/kg	-

Acute toxicity estimates

SECTION 11: Toxicological information						
Route	ATE value					
Øral	36137.26 mg/kg					
Dermal	14852.12 mg/kg					
Inhalation (vapours)	121.79 mg/l					
Inhalation (dusts and mists)	123.4 mg/l					

Irritation/Corrosion

Product/ingredient nameResultSpeciesDis[4-(2,3-epoxypropoxy)Eyes - Severe irritantRabbitphenyl]propaneSkinMild irritantDabbit	Score	Exposure	Observation
phenyl]propane		-	Obscivation
	-	24 hours 2	-
Oking Mild invite of Deletit		mg	
Skin - Mild irritant Rabbit	-	500 mg	-
titanium dioxide Skin - Mild irritant Human	-	72 hours 300	-
Xvlene Eves - Mild irritant Rabbit		ug l	
Xylene Eyes - Mild irritant Rabbit Eyes - Severe irritant Rabbit	-	87 mg 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	
Benzyl alcohol Skin - Mild irritant Man	-	48 hours 16	-
		mg	
Skin - Moderate irritant Pig	-	100 %	-
Skin - Moderate irritant Rabbit	-	24 hours 100	-
Ethylbenzene Eyes - Severe irritant Rabbit	-	mg 500 mg	
Skin - Mild irritant Rabbit	1	24 hours 15	-
		mg	
		9	
Conclusion/Summary : Causes skin irritation.			
<u>Sensitisation</u>			
Conclusion/Summary : May cause an allergic skin reaction.			
<u>Mutagenicity</u>			
Conclusion/Summary : Based on available data, the classification c	riteria are	e not met.	
<u>Carcinogenicity</u>			
t has been observed that the carcinogenic hazard of this product arises wher eading to significant impairment of particle clearance mechanisms in the lung		le dust is inhale	ed in quantities
Conclusion/Summary : Based on available data, the classification of	riteria are	e not met.	

Conclusion/Summary <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
iso-butanol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

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

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Xylene	0,	oral, inhalation	-
Ethylbenzene		oral, inhalation	hearing organs

Aspiration hazard

Product/	ingredient name	Result
Xylene Ethylbenzene		ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
nformation on likely routes of exposure	: Not available.	
Potential acute health effects	<u>5</u>	
Eye contact	: Causes serious eye irr	itation.
Inhalation	: No known significant e	effects or critical hazards.
Skin contact	: Causes skin irritation.	May cause an allergic skin reaction.
Ingestion	: No known significant e	effects or critical hazards.
Symptoms related to the phy	vsical, chemical and toxic	cological characteristics
Eye contact	: Adverse symptoms ma pain or irritation watering redness	ay include the following:
Inhalation	: No specific data.	
Skin contact	: Adverse symptoms ma irritation redness	ay include the following:
Ingestion	: No specific data.	
Delayed and immediate effect	ts as well as chronic effe	ects from short and long-term exposure
Short term exposure		
Potential immediate effects	: Not available.	
Potential delayed effects Long term exposure	: Not available.	
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Potential chronic health eff	<u>ects</u>	
Not available.		
Conclusion/Summary	: Not available.	
General		vere allergic reaction may occur when subsequently expose
Carcinogenicity	•	ffects or critical hazards.
Mutagenicity	-	effects or critical hazards.
Reproductive toxicity	•	effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting propertiesNot available.11.2.2 Other informationNot available.

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SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Manium dioxide	Acute LC50 3 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 6.5 mg/l Fresh water	Daphnia - <i>Daphnia pulex</i> - Neonate	48 hours
	Acute LC50 >1000000 µg/l Marine water	Fish - Fundulus heteroclitus	96 hours
Phenol, methylstyrenated	Acute EC50 15 mg/l	Algae	72 hours
	Acute EC50 14 mg/l	Daphnia	48 hours
	Acute LC50 25.8 mg/l	Fish	96 hours
Benzyl alcohol	Acute LC50 10000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
iso-butanol	Acute LC50 600 mg/l Marine water	Crustaceans - Artemia salina	48 hours
	Acute LC50 1030000 µg/l Fresh water	Daphnia - <i>Daphnia magna -</i> Neonate	48 hours
	Acute LC50 1330000 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

Conclusion/Summary

: Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum		
iso-butanol	-	74 % - Readily - 28 days		-	-		
Conclusion/Summary : This product has not been tested for biodegradation.							
Product/ingredient name	Aquatic half-life		Photolysis	5	Biodegradability		
iso-butanol	-		-		Readily		

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
X ylene	3.12	8.1 to 25.9	Low
Phenol, methylstyrenated	3.627	-	Low
Benzyl alcohol	0.87	-	Low
Ethylbenzene	3.6	-	Low
iso-butanol	1	-	Low

12.4 Mobility in soil

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

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
₿is[4-(2,3-epoxypropoxy) phenyl]propane	No	N/A	N/A	No	N/A	N/A	N/A
Xylene	No	N/A	No	Yes	No	N/A	No
Phenol, methylstyrenated	No	N/A	N/A	No	SVHC (Candidate)	Specified	Specified
Benzyl alcohol iso-butanol	No No	N/A N/A	N/A N/A	No No	N/A N/A	N/A N/A	N/A N/A

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods	i
<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.
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
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	111	111	111	111
14.5 Environmental hazards	No.	No.	No.	No.

Additional information

ADR/RID	:	<u>Viscous liquid exception</u> This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1. <u>Tunnel code</u> (D/E)
ADN	:	<u>Viscous liquid exception</u> 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>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 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 in the event of an accident or spillage.
14.7 Maritime transport in bulk according to IMO instruments	:	Not relevant/applicable due to nature of the product.

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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

Intrinsic property	Ingredient name		Reference number	Date of revision
₩́ÞvB	Phenol, methylstyrenated	Candidate	D(2023) 8585-DC	-

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

FEKNOMASTIC COMBI 80-500 290 3 Labelling : Other EU regulations Industrial emissions : Not listed (integrated pollution prevention and control) - Air Industrial emissions : Not listed (integrated pollution prevention and control) - Water Explosive precursors : Not applicable. Ozone depleting substances (1005/2009/EU) Not listed. Prior Informed Consent (PIC) (649/2012/EU) Not listed. Prior Informed Consent (PIC) (649/2012/EU) Not listed. Persistent Organic Pollutants Not listed. Post Stead Organic Pollutants Seveso Directive This product is controlled under the Seveso Directive. Danger criteria Category PSc Natinal Ybr class : A II Very dangerous flammable liquid. Limitation of the use of : Permitted. organic Solvents Category Storage code : II Denmark Danish fire class : II-1 Executive Order No. 1795/2015	Product/ingredient name		%	Designation [Usage]	
Other EU regulations Industrial emissions : Not listed (integrated pollution prevention and control) - Air Industrial emissions : Not listed (integrated pollution prevention and control) - Water Explosive precursors : Not applicable. Ozone depleting substances (1005/2009/EU) Not listed. Prior Informed Consent (PIC) (649/2012/EU) Not listed. Pauseria Visted. Pauseria Visted. Pauseria Visted. Pauseria Visted. Pauseria Visted. Pauseria Visted. Pauseria V	FEKNOMASTIC COMBI 80	0-500	≥90	3	
Industrial emissions : Not listed (integrated pollution prevention and control) - Air Industrial emissions : Not listed (integrated pollution prevention and control) - Water Explosive precursors : Not applicable. <u>Ozone depleting substances (1005/2009/EU)</u> Not listed. <u>Prior Informed Consent (PIC) (649/2012/EU)</u> Not listed. <u>Prior Informed Consent (PIC) (649/2012/EU)</u> Not listed. <u>Persistent Organic Pollutants</u> Not listed. <u>Seveso Directive</u> This product is controlled under the Seveso Directive. <u>Danger criteria</u> <u>Category</u> <u>PSc</u> <u>National regulations</u> <u>Austria</u> VbF class : A II Very dangerous flammable liquid. Limitation of the use of : Permitted. organic solvents <u>Cace Republic</u> Storage code : II <u>Denmark</u> <u>Danish fire class</u> : II-1	Labelling	:	1		
(integrated pollution prevention and control) - Air Industrial emissions : Not listed (integrated pollution prevention and control) - Water Explosive precursors : Not applicable. Ozone depleting substances (1005/2009/EU) Not listed. Proinformed Consent (PIC) (649/2012/EU) Not listed. Persistent Organic Pollutants Not listed. Seveso Directive This product is controlled under the Seveso Directive. Danger criteria Category P5c National regulations Austria VbF class : All Very dangerous flammable liquid. Limitation of the use of crace Republic Storage code : Permitted. Storage code : Il Denmark Danish fire class : Il-1	Other EU regulations				
(integrated pollution prevention and control) - Water Explosive precursors : Mot applicable. Ozone depleting substances (1005/2009/EU) Not listed. Prior Informed Consent (PIC) (649/2012/EU) Not listed. Persistent Organic Pollutants Not listed. Seveso Directive This product is controlled under the Seveso Directive. Danger criteria Category P5c National regulations Austria VbF class : All Very dangerous flammable liquid. Limitation of the use of organic solvents Storage code : Il Denmark Danish fire class : UI-1	(integrated pollution prevention and control) -	: Not listed			
Ozone depleting substances (1005/2009/EU) Not listed. Prior Informed Consent (PIC) (649/2012/EU) Not listed. Persistent Organic Pollutants Not listed. Seveso Directive This product is controlled under the Seveso Directive. Danger criteria Category P5c National regulations Austria VbF class : A II Very dangerous flammable liquid. Limitation of the use of organic solvents : Permitted. Organic solvents : Permitted. Czech Republic : Storage code : II Denmark : II-1	(integrated pollution prevention and control) -	: Not listed			
Not listed. Prior Informed Consent (PIC) (649/2012/EU) Not listed. Persistent Organic Pollutants Not listed. Seveso Directive This product is controlled under the Seveso Directive. Danger criteria Category P5c National regulations Austria VbF class : A II Very dangerous flammable liquid. Limitation of the use of : Permitted. organic solvents Czech Republic Storage code : II Denmark Danish fire class : II-1	Explosive precursors	: Not applica	ble.		
Not listed. Persistent Organic Pollutants Not listed. Seveso Directive This product is controlled under the Seveso Directive. Danger criteria Category P5c National regulations Austria VbF class : A II Very dangerous flammable liquid. Limitation of the use of organic solvents : Permitted. Czech Republic : Storage code : II Denmark Danish fire class : II-1		<u>ces (1005/2009/</u>	<u>EU)</u>		
Not listed. Seveso Directive This product is controlled under the Seveso Directive. Danger criteria Category P5c National regulations Austria VbF class : A II Very dangerous flammable liquid. Limitation of the use of organic solvents : Permitted. Czech Republic : Storage code : II Denmark : II-1		<u>PIC) (649/2012/E</u>	<u>EU)</u>		
This product is controlled under the Seveso Directive. Danger criteria Category P5c National regulations Austria VbF class : A II Very dangerous flammable liquid. Limitation of the use of organic solvents : Permitted. Czech Republic : Storage code : II Denmark : II-1		ants			
Danger criteria Category P5c National regulations Austria VbF class : A II Very dangerous flammable liquid. Limitation of the use of organic solvents : Permitted. Czech Republic : Storage code : II Denmark : II-1	Seveso Directive				
Category P5c National regulations Austria VbF class : A II VbF class : Permitted. organic solvents : Permitted. Czech Republic : Storage code : II Denmark : II-1	This product is controlled ur	nder the Seveso	Directive.		
P5c National regulations Austria VbF class : A II Very dangerous flammable liquid. Limitation of the use of organic solvents : Permitted. Czech Republic : Storage code : II Denmark : Danish fire class : II-1	Danger criteria				
National regulations Austria VbF class : A II Very dangerous flammable liquid. Limitation of the use of organic solvents : Permitted. Czech Republic : Storage code : II Storage code : II Denmark : II-1	Category				
AustriaVbF class: A II Very dangerous flammable liquid.Limitation of the use of organic solvents: Permitted.Czech Republic: Permitted.Storage code: IIDenmark: II-1	P5c				
VbF class: A II Very dangerous flammable liquid.Limitation of the use of organic solvents: Permitted.Czech Republic: IIStorage code: IIDenmark: II-1	National regulations				
Limitation of the use of organic solvents : Permitted. Czech Republic : II Storage code : II Denmark : II-1	<u>Austria</u>				
organic solventsCzech RepublicStorage code: IIDenmarkDanish fire class: II-1	VbF class		rous flamn	nable liquid.	
Storage code : II Denmark Danish fire class : II-1		: Permitted.			
Denmark Danish fire class : II-1	Czech Republic				
Danish fire class : II-1	Storage code	: 11			
	<u>Denmark</u>				
Executive Order No. 1795/2015	Danish fire class	: II-1			
	Executive Order No. 1795	<u>/2015</u>			

Ingredient name		Annex I Section A	Annex I Section B				
Manium dioxide Ethylbenzene		Listed Listed					
MAL-code	: 🛛 5						
Protection based on MAL	: According to the regulations on wo stipulations apply to the use of personal statements apply to the use of personal statements and the statements apply to the use of personal statements apply to the use						
	General: Gloves must be worn for all coveralls/protective clothing must be v clothes do not adequately protect skin shield must be worn in work involving case, other recommended use of eye	vorn when soiling is so against contact with th spattering if a full mas	great that regular wo ne product. A face k is not required. In thi				
	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: 3-5 Application: When using scraper or treatments in a spray booth where the working in similar new* facilities of the type where the operator is working ins booths and cabins with non-atomizing	operator is outside the combined-cabin, spra ide the spray zone. Wi	e spray zone and whe y-cabin and spray-boo				
	- Protective clothing must be worn.						
	During downtimes, cleaning and repai there is a risk of contact with wet paint knife, brush, roller, etc, for pre- and po existing* facility type, if the operator is knife, brush, roller, etc. for pre- and po booth or spray cabin.	t or organic solvents. Nost-treatments in cabin inside the spray zone.	When using scraper on s or booths of the When using scraper				
	- Air-supplied half mask, protective clothing and eye protection must be worn.						
	When spraying in new* booths if the operator is outside the spray zone.						
	- Air-supplied half mask and eye protection must be worn.						
	When spraying in existing* spray booths, if the operator is outside the sp During non-atomising spraying in existing* facilities of the combined-cab cabin and spray-booth type where the operator is working inside the spr						
	- Air-supplied full mask and protective clothing must be worn.						
	During all spraying where atomisation operator is inside the spray zone and o or booth.						
	- Air-supplied full mask, protective clothing and hood must be worn.						
	Drying: Items for drying/drying ovens rack trolleys, etc, must be equipped w fumes from wet items from passing th	ith a mechanical exhau	ust system to prevent				
	Polishing: When polishing treated su When machine grinding, eye protectio worn.						
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		· • · · · • · LVLL					

SECTION 15: Regulatory information

		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 Working Environment Authorities Executive Order reg		
List of undesirable substances	:	Listed		
Carcinogenic waste	:	Waste containers must be labeled: Contains a substa by Danish working environment legislation on cancer		
Epoxy/Isocyanate	:	The product is covered by the rules for epoxy resins and isocyanates in Executive Order no. 1793 of 18/12/2015 on working with substances and materials (chemical agents). Pay attention to the rules, for example: the user of the product must have undergone special training and waste must be labelled. This requirement is in addition to the training requirement described in the REACH regulation, Annex XVII, entry 74 (COMMISSION REGULATION (EU) 2020/1149).		
<u>Finland</u>				
<u>France</u>				
Social Security Code, Articles L 461-1 to L 461-7		Kylene Ethylbenzene iso-butanol	RG 4bis, RG 84 RG 84 RG 84	
Reinforced medical surveillance	:	Act of July 11, 1977 determining the list of activities w medical surveillance: not applicable	hich require reinforced	
<u>Germany</u>				
Storage class (TRGS 510)	:	3		
Hazardous incident ordina	nc	<u>e</u>		
This product is controlled up	der	the Germany Hazardous Incident Ordinance		

This product is controlled under the Germany Hazardous Incident Ordinance.

Danger criteria

Category	Reference number
₽5c	1.2.5.3
Hazard class for water : 2	

5%

Technical instruction on air quality control	:	TA-Luft Number 5.2.5: 38.3% TA-Luft Class I - Number 5.2.5:
<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
x ylene	-	-	-	Development 2	-
Water Discharge Policy (ABM)		c for aquatic orga ent. Decontamina	nisms, may have lo ation effort: A	ng-term hazardous	effects in aquatic
<u>Norway</u> <u>Sweden</u>					
Flammable liquid class (SRVFS 2005:10)	: 2a				
Epoxy/Isocyanate	allergenic Working of underg be labelle addition t	chemical produc Environment. Pay one necessary tr d with named sul o the training req	the specific rules for tts in provision AFS attention to that ha aining and can requi bstance and as Haze uirement described i EGULATION (EU) 2	2011:19 Chemical ndling the product r ire medical examin ardous waste. This n the REACH regu	Hazards in the requires certificate ation. Waste must requirement is in
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SECTION 15: Regulatory information
<u>Switzerland</u>
VOC content : VOC (w/w): 13.9%
International regulations
Chemical Weapon Convention List Schedules I, II & III Chemicals
Not listed.
Montreal Protocol
Not listed.
Stockholm Convention on Persistent Organic Pollutants
Not listed.
Rotterdam Convention on Prior Informed Consent (PIC)
Not listed.
UNECE Aarhus Protocol on POPs and Heavy Metals
Not listed.

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

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

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.	
H226	Flammable liquid and vapour.	
H302	Harmful if swallowed.	
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.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H332	Harmful if inhaled.	
H335	May cause respiratory irritation.	
H336	May cause drowsiness or dizziness.	
H351	Suspected of causing cancer.	
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.	

SECTION 16: Other information

Full text of classifications [CLP/GHS]

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
	ASPIRATION HAZARD - Category 1
Carc. 2	CARCINOGENICITY - Category 2
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
Date of issue/ Date of	: 26/02/2024
revision	
Date of previous issue	: 31/10/2022
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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.

Date of issue/Date of revision: 26/02/2024DatePEKNOMASTIC COMBI 80-500 - All variants

2/2024 Date of previous issue