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

SAFETY DATA SHEET



TEKNOSOLV 9502

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

1.1 Product identifier Product name

: TEKNOSOLV 9502

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

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 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 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	: Danger
Hazard statements	 H226 - Flammable liquid and vapour. H304 - May be fatal if swallowed and enters airways. H312 + H332 - Harmful in contact with skin or if inhaled. H315 - Causes skin irritation. H319 - Causes serious eye irritation. H335 - May cause respiratory irritation. H373 - May cause damage to organs through prolonged or repeated exposure.

SECTION 2: Hazards identification

	H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements	
Prevention	 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 - Do not breathe vapour.
Response	: P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.
Storage	: P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
Disposal	 P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	: 🖉 ontains: Xylene and Ethylbenzene
Supplemental label elements	:
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.

1907/2006, Annex XIIIOther 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
Xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥50 - ≤75	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]
Ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥10 - ≤19	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) (oral, inhalation) Asp. Tox. 1, H304	ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
Solvent naphtha (petroleum), light aromatic	REACH #: 01-2119455851-35 EC: 265-199-0 CAS: 64742-95-6 Index: 649-356-00-4	≤10	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	-	[1]
n-Butyl acetate	REACH #: 01-2119485493-29	≤5	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
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EC: 204 CAS: 12 Index: 6		EUH066 See Section 16 for the full text of the H statements declared above.			

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

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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 it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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 necessary, call a poison center or physician. 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. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.				
Ingestion	: Get medical attention immediately. Call a poison center or physician. 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. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. 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. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.				

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptom	<u>IS</u>
Eye contact :	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation :	Adverse symptoms may include the following: respiratory tract irritation coughing

Skin contact	: Adverse symptoms may include the following:
Skii contact	irritation redness
Ingestion	: Adverse symptoms may include the following: nausea or vomiting
4.3 Indication of any immedia	ate 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: Firefight	ting 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 fi	rom the substance or mixture
Hazards from the substance or mixture	: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
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: Acciden	

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and material for containment and cleaning up

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SECTION 6: Accidental release measures

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 swallow. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Seveso Directive - Reporting thresholds

Danger criteria				
Category	Notification and MAPP threshold	Safety report threshold		
P5c	5000 tonne	50000 tonne		

7.3 Specific end use(s)

solutions

Recommendations Industrial sector specific

- : Not available.
- : Not available.

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

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Xylene	Regulation on Limit Values - MAC (Austria, 4/2021). [Xylenes
	(all isomers)]
	PEAK: 442 mg/m ³ , 4 times per shift, 15 minutes.
	TWA: 50 ppm 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes.
	TWA: 221 mg/m ³ 8 hours.
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.
n-Butyl acetate	Regulation on Limit Values - MAC (Austria, 4/2021). [Butyl
	acetate (all isomers except tert-butyl acetate)]
	CEIL: 480 mg/m ³ 15 minutes. CEIL: 100 ppm 15 minutes.
	TWA: 241 mg/m ³ 8 hours.
	TWA: 241 mg/m o hours.
Kylene	Limit values (Belgium, 5/2021). [Xylene] Absorbed through
kylene	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.
n-Butyl acetate	Limit values (Belgium, 5/2021). [butyl acetate, all isomers]
	STEL: 712 mg/m ³ 15 minutes. STEL: 150 ppm 15 minutes.
	TWA: 238 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
Xylene	Ministry of Labour and Social Policy and the Ministry of
Aylene	Health - Ordinance No 13/2003. (Bulgaria, 6/2021). [Xylene]
	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.
Ethylbenzene	Ministry of Labour and Social Policy and the Ministry of
	Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed
	through skin.
	Limit value 8 hours: 435 mg/m ³ 8 hours.
n Putul apotato	Limit value 15 min: 545 mg/m ³ 15 minutes. 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/m ³ 8 hours.
	Limit value 15 min: 723 mg/m ³ 15 minutes.
	Limit value 15 min: 150 ppm 15 minutes.
	Limit value 8 hours: 50 ppm 8 hours.
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	Kylene	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.
	Ethylhonzono	ELV: 50 ppm 8 hours.
	Ethylbenzene	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.
	Solvent naphtha (petroleum), light aromatic	Ministry of Economy, Labour and Entrepreneurship ELV/
	· · · · · · · · · · · · · · · · · · ·	STELV (Croatia).
		ELV: 100 ppm
		ELV: 400 mg/m ³
	n-Butyl acetate	Ministry of Economy, Labour and Entrepreneurship ELV/
		STELV (Croatia, 1/2021).
		STELV: 723 mg/m ³ 15 minutes.
		STELV: 150 ppm 15 minutes.
		ELV: 241 mg/m ³ 8 hours.
		ELV: 50 ppm 8 hours.
	Xylene	EU OEL (Europe, 10/2019). [xylene, mixed isomers] 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, 10/2019). 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.
	n-Butyl acetate	EU OEL (Europe, 10/2019). 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.
	Xylene	Government regulation of Czech Republic PEL/NPK-P (Czech
		Republic, 5/2021). [] Absorbed through skin.
		TWA: 200 mg/m ³ 8 hours.
		TWA: 45.4 ppm 8 hours.
		STEL: 400 mg/m ³ 15 minutes.
	Ethylhonzono	STEL: 90.8 ppm 15 minutes.
	Ethylbenzene	Government regulation of Czech Republic PEL/NPK-P (Czech
		Republic, 5/2021). Absorbed through skin. TWA: 200 mg/m ³ 8 hours.
		TWA: 200 mg/m 8 hours.
		STEL: 500 mg/m ³ 15 minutes.
		STEL: 113.5 ppm 15 minutes.
	Solvent naphtha (petroleum), light aromatic	Government regulation of Czech Republic PEL/NPK-P (Czech
		Republic, 5/2021). []
		TWA: 200 mg/m ³ 8 hours.
		STEL: 1000 mg/m ³ 15 minutes.
	n-Butyl acetate	Government regulation of Czech Republic PEL/NPK-P (Czech
		Republic, 5/2021).
		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.
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Xylene	Working Environment Authority (Denmark, 6/2021). [] Absorbed through skin. TWA: 25 ppm 8 hours.
Ethylbenzene	TWA: 109 mg/m ³ 8 hours. Working Environment Authority (Denmark, 6/2021). Absorbed through skin. Carcinogen. TWA: 50 ppm 8 hours. TWA: 217 mg/m ³ 8 hours.
n-Butyl acetate	Working Environment Authority (Denmark, 6/2021). [] TWA: 50 ppm 8 hours. TWA: 241 mg/m ³ 8 hours.
₩ylene	Occupational exposure limits, Regulation No. 293 (Estonia, 10/2019). [] 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, 10/2019). 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.
n-Butyl acetate	Occupational exposure limits, Regulation No. 293 (Estonia, 10/2019). [] TWA: 500 mg/m ³ 8 hours. TWA: 100 ppm 8 hours. STEL: 700 mg/m ³ 15 minutes.
Vlene	STEL: 150 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.
Ethylbenzene	STEL: 100 ppm 15 minutes. STEL: 442 mg/m ³ 15 minutes. 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.
n-Butyl acetate	 STEL: 200 ppm 15 minutes. STEL: 884 mg/m³ 15 minutes. 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.
₩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.
Ethylbenzene	TWA: 50 ppm 8 hours. STEL: 100 ppm 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.
Solvent naphtha (petroleum), light aromatic	STEL: 200 ppm 15 minutes. STEL: 880 mg/m ³ 15 minutes. Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2020). TWA: 100 mg/m ³ 8 hours.

-Butyl acetate	Institute of Occupational Health, Ministry of Social Affairs
	(Finland, 10/2021).
	TWA: 150 ppm 8 hours.
	TWA: 720 mg/m ³ 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 960 mg/m ³ 15 minutes.
Xylene	Ministry of Labor (France, 5/2021). [] Absorbed through skir Notes: Binding regulatory limit values (article R. 4412-149 o 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.
thylbenzene	Ministry of Labor (France, 5/2021). Absorbed through skin.
	Notes: Binding regulatory limit values (article R. 4412-149 o
	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.
olvent naphtha (petroleum), light aromatic	Ministry of Labor (France, 5/2021). [] Notes: Permissible lin
	values (circulars)
	TWA: 1000 mg/m ³ 8 hours. Form: Vapour
	STEL: 1500 mg/m ³ 15 minutes. Form: Vapour
Butyl acetate	Ministry of Labor (France, 5/2021). Notes: Permissible limit
	values (circulars)
	TWA: 150 ppm 8 hours.
	TWA: 710 mg/m ³ 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 940 mg/m ³ 15 minutes.
ylene	TRGS 900 OEL (Germany, 7/2021). [] Absorbed through skin
	TWA: 220 mg/m ³ 8 hours.
	PEAK: 440 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
	PEAK: 100 ppm 15 minutes.
	DFG MAC-values list (Germany, 10/2021). [Xylene] 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.
thylbenzene	TRGS 900 OEL (Germany, 7/2021). 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, 10/2021). Absorbed through skin.
	PEAK: 40 ppm, 4 times per shift, 15 minutes.
	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.
-Butyl acetate	DFG MAC-values list (Germany, 10/2021).
acouto	TWA: 100 ppm 8 hours.
	PEAK: 200 ppm, 4 times per shift, 15 minutes.
	TWA: 480 mg/m ³ 8 hours.
	PEAK: 960 mg/m ³ , 4 times per shift, 15 minutes.
	TRGS 900 OEL (Germany, 7/2021).
	TWA: 300 mg/m ³ 8 hours.
	TWA: 62 ppm 8 hours.
	PEAK: 600 mg/m³ 15 minutes.
	PEAK: 124 ppm 15 minutes.

X ylene	Presidential Decree 307/1986: Occupational exposure limit
	values (Greece, 9/2021). [] Absorbed through skin.
	TWA: 100 ppm 8 hours.
	TWA: 435 mg/m ³ 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 650 mg/m ³ 15 minutes.
Ethylbenzene	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.
n-Butyl acetate	Presidential Decree 307/1986: Occupational exposure limit
	values (Greece, 9/2021).
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m ³ 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m ³ 15 minutes.
X ylene	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). [xylene, mixture
Vylene	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.
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.
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.
Xylene	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). []
, ,	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.
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.
n-Butyl acetate	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). []
	TWA: 241 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 723 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
Xylene	NAOSH (Ireland, 5/2021). [xylene mixed isomers] Absorbed
	through skin. Notes: EU derived Occupational Exposure Limit
	Values
	OELV-8hr: 50 ppm 8 hours.
	OELV-8hr: 221 mg/m ³ 8 hours.
	OELV-011.221 fig/iii 8 flours. 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.
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	ontrols/personal protection
	OELV-8hr: 442 mg/m ³ 8 hours.
	OELV-15min: 200 ppm 15 minutes.
. Dutid a state	OELV-15min: 884 mg/m ³ 15 minutes.
-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.
Z .	OELV-15min: 723 mg/m ³ 15 minutes.
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/m ³ 8 hours.
	Short Term: 100 ppm 15 minutes.
	Short Term: 442 mg/m ³ 15 minutes.
thylbenzene	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.
-Butyl acetate	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.
ylene	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).
	[Xylenes] 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.
thylbenzene	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.
-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.
7.	
ylene	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.
thylbenzene	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.
-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.

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	Xylene	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.
	Ethylbenzene	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.
	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.
	Xylene	EU OEL (Europe, 10/2019). [xylene, mixed isomers] 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, 10/2019). 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.
	n-Butyl acetate	EU OEL (Europe, 10/2019). 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.
	Xylene	Ministry of Social Affairs and Employment, Legal limit values
		(Netherlands, 12/2022). [xylenes (all isomers)] Absorbed
		through skin.
		OEL, 8-h TWA: 210 mg/m ³ 8 hours.
		STEL,15-min: 442 mg/m ³ 15 minutes.
		STEL,15-min: 100 ppm 15 minutes.
		OEL, 8-h TWA: 47.5 ppm 8 hours.
	Ethylbenzene	Ministry of Social Affairs and Employment, Legal limit values
		(Netherlands, 12/2022). Absorbed through skin.
		OEL, 8-h TWA: 215 mg/m ³ 8 hours.
		STEL, 15-min: 430 mg/m ³ 15 minutes.
		STEL,15-min: 97.3 ppm 15 minutes.
		OEL, 8-h TWA: 48.6 ppm 8 hours.
	n-Butyl acetate	Ministry of Social Affairs and Employment, Legal limit values
		(Netherlands, 12/2022).
		OEL, 8-h TWA: 241 mg/m ³ 8 hours.
		STEL,15-min: 723 mg/m ³ 15 minutes.
		STEL,15-min: 150 ppm 15 minutes.
		OEL, 8-h TWA: 50 ppm 8 hours.
	⋉ ylene	FOR-2011-12-06-1358 (Norway, 12/2022). [Xylene, all isomers]
	Aylerie	
		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.
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	TWA: 20 mg/m ³ 8 hours.
-Butyl acetate	FOR-2011-12-06-1358 (Norway, 12/2022).
	STEL: 723 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes. FOR-2011-12-06-1358 (Norway, 12/2022). Notes: indicative
	limit value
	TWA: 241 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
Xylene	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.
thylbenzene	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). Absorbed through skin.
	TWA: 200 mg/m ³ 8 hours. STEL: 400 mg/m ³ 15 minutes.
-Butyl acetate	Regulation of the Minister of Family, Labor and Social Policy
-	of 18 February 2021, regarding the highest permissible
	concentrations and values of agents harmful to health in the
	work environment (Journal of Laws 2021, item 325) (Poland, 2/2021).
	TWA: 240 mg/m ³ 8 hours.
	STEL: 720 mg/m ³ 15 minutes.
ylene	Portuguese Institute of Quality (Portugal, 11/2014). [Xylene]
	TWA: 100 ppm 8 hours.
thulhanzana	STEL: 150 ppm 15 minutes.
thylbenzene	Portuguese Institute of Quality (Portugal, 11/2014). TWA: 20 ppm 8 hours.
-Butyl acetate	Portuguese Institute of Quality (Portugal, 11/2014).
	TWA: 150 ppm 8 hours.
	STEL: 200 ppm 15 minutes.
ylene	HG 1218/2006, Annex 1, with subsequent modifications and
	additions (Romania, 3/2021). [] 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.
thylbenzene	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.
olvent naphtha (petroleum), light aromatic	Short term: 200 ppm 15 minutes. HG 1218/2006, Annex 1, with subsequent modifications and
	additions (Romania, 3/2021). [] Absorbed through skin.
	VLA: 100 mg/m ³ 8 hours.
	Short term: 200 mg/m ³ 15 minutes.
-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.
	Short term: 150 ppm 15 minutes.

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₩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.
n-Butyl acetate	Government regulation SR c. 355/2006 (Slovakia, 9/2020).
In Bulyr doctate	[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.
Xylene	Regulation on protection of workers from the risks related to
	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.
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.
n-Butyl acetate	Regulation on protection of workers from the risks related to
	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.
Xylene	National institute of occupational safety and health (Spain,
	4/2021). [] 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.
Ethylbenzene	National institute of occupational safety and health (Spain,
	4/2021). Absorbed through skin.
	TWA: 100 ppm 8 hours.
	TWA: 441 mg/m ³ 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 884 mg/m ³ 15 minutes.
n-Butyl acetate	National institute of occupational safety and health (Spain,
	4/2021).
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m ³ 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 724 mg/m ³ 15 minutes.
Xylene	Work environment authority Regulation 2018:1 (Sweden,
Xylene	
	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,
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	9/2021). Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 220 mg/m ³ 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 884 mg/m ³ 15 minutes.
n-Butyl acetate	Work environment authority Regulation 2018:1 (Sweden,
-	9/2021). [butyl acetate]
	TWA: 50 ppm 8 hours.
	TWA: 241 mg/m ³ 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 723 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.
Ethylbenzene	SUVA (Switzerland, 1/2023). Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 220 mg/m ³ 8 hours.
	STEL: 50 ppm 15 minutes.
	STEL: 220 mg/m ³ 15 minutes.
n-Butyl acetate	SUVA (Switzerland, 1/2023).
	TWA: 50 ppm 8 hours.
	TWA: 240 mg/m ³ 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 720 mg/m ³ 15 minutes.
Xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,n
	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.
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.
	TWA: 150 ppm 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.	
No exposure indices known.	
₩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
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SECTION 8: Exposure controls/personal protection 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. **X**ylene Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) [Xylene] BEI: 5 mmol/l, methylhippuricacid [in urine]. Sampling time: at the end of the work shift. Institute of Occupational Health, Ministry of Social Affairs Ethylbenzene (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. No exposure indices known. 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. **X**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 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.	
Kylene	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.
No exposure indices known.	
Kylene	Government regulation SR c. 355/2006 (Slovakia, 9/2020) [xylene, all isomers] BLV: 781 µmol/mmol creatinine, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift BLV: 1334 mg/g creatinine, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 10355 µmol/l, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 14.6 µmol/l, xylene [in blood]. Sampling time: at the end of exposure or work shift. BLV: 2000 mg/l, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1.5 mg/l, xylene [in blood]. Sampling time: at the end of exposure or work shift.
Ethylbenzene	 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: 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, cor 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 98.6 µmol/l, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 1600 mg/l, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

SECTION 8: Exposure controls/personal protection of exposure or work shift; long-term exposure: after several work shifts.

	Shints.
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
X ylene	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.
procedures Europe assess values	ence should be made to monitoring standards, such as the following: ean Standard EN 689 (Workplace atmospheres - Guidance for the sment of exposure by inhalation to chemical agents for comparison with limit and measurement strategy) European Standard EN 14042 (Workplace observes - Guide for the application and use of procedures for the assessment

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		population	
	DNEL	Short term	260 mg/m ³	General	Local
		Inhalation	J	population	
	DNEL	Short term	260 mg/m ³	General	Systemic
		Inhalation	J	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		Systemic
		Inhalation	Jere nig.	population	-,
	DNEL	Long term Dermal	125 mg/kg	General	Systemic
			bw/day	population	-,
	DNEL	Long term Dermal	212 mg/kg	Workers	Systemic
		5	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	.		,
Ethylbenzene	DNEL	Long term Oral	1.6 mg/kg	General	Systemic
,		5	bw/day	population	,
	DNEL	Long term	15 mg/m ³	General	Systemic
		Inhalation	0	population	,
	DNEL	Long term	77 mg/m³	Workers	Systemic
		Inhalation	0		
	DNEL	Long term Dermal	180 mg/kg	Workers	Systemic
		Ŭ	bw/day		
	DNEL	Short term	293 mg/m ³	Workers	Local
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ECTION 8: Exposure con	trols/p	personal prote	ction		
		Inhalation			
	DMEL	Long term	442 mg/m³	Workers	Local
		Inhalation			
	DMEL	Short term	884 mg/m³	Workers	Systemic
		Inhalation	_		-
Solvent naphtha (petroleum), light	DNEL	Long term	0.41 mg/m ³	General	Systemic
aromatic		Inhalation	-	population	
	DNEL	Long term	1.9 mg/m ³	Workers	Systemic
		Inhalation			
	DNEL	Long term	178.57 mg/	General	Local
		Inhalation	m³	population	
	DNEL	Short term	640 mg/m ³	General	Local
		Inhalation	_	population	
	DNEL	Long term	837.5 mg/	Workers	Local
		Inhalation	m³		
	DNEL	Short term	1066.67	Workers	Local
		Inhalation	mg/m³		
	DNEL	Short term	1152 mg/	General	Systemic
		Inhalation	m³	population	,
	DNEL	Short term	1286.4 mg/	Workers	Systemic
		Inhalation	m³		,
n-Butyl acetate	DNEL	Short term Oral	2 mg/kg	General	Systemic
			bw/day	population	,
	DNEL	Long term Oral	2 mg/kg	General	Systemic
		5	bw/day	population	,
	DNEL	Short term Dermal	6 mg/kg	General	Systemic
			bw/day	population	,
	DNEL	Short term Dermal	11 mg/kg	Workers	Systemic
			bw/day		,
	DNEL	Long term	35.7 mg/m ³	General	Local
		Inhalation	0	population	
	DNEL	Short term	300 mg/m ³	General	Local
		Inhalation	J	population	
	DNEL	Short term	300 mg/m ³	General	Systemic
		Inhalation	Ũ	population	,
	DNEL	Long term	300 mg/m ³	Workers	Local
		Inhalation	J		
	DNEL	Short term	600 mg/m ³	Workers	Local
		Inhalation	J		
	DNEL	Short term	600 mg/m ³	Workers	Systemic
		Inhalation	Ũ		,
	DNEL	Long term Dermal	3.4 mg/kg	General	Systemic
		<u> </u>	bw/day	population	,
	DNEL	Long term Dermal	7 mg/kg	Workers	Systemic
			bw/day		.,
	DNEL	Long term	12 mg/m ³	General	Systemic
		Inhalation	·= ···g/····	population	
	DNEL	Long term	48 mg/m³	Workers	Systemic
		Inhalation			

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 measures

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

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	: Colourless.
Odour	: Slight
Odour threshold	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	:

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Ingredient name		°C	°F	Method
<mark>p</mark> ≁Butyl acetate		126	258.8	OECD 103
Solvent naphtha (petroleum), light aroma	atic	135 to 210	275 to 410	
Flammability	: Not ava	ilable.		
Lower and upper explosion limit	: V ower: Upper:			
Flash point	: Closed	cup: 25°C (77°F)		
Auto-ignition temperature	:			
Ingredient name		°C	°F	Method
Solvent naphtha (petroleum), light aroma	atic	280 to 470	536 to 878	
n-Butyl acetate		415	779	EU A.15
Decomposition temperature	: Not ava	ilable.		
рН	: Not app	olicable.		
Viscosity	: Kinema	tic (40°C): <20.5	mm²/s	
Solubility(ies)	:			
Not available.				
Solubility in water	: Not ava	ilable.		
Partition coefficient: n-octanol/ water	: Not app	blicable.		
Vapour pressure				

Vapour pressure

	Va	Vapour Pressure at 20°C			Vapour press		
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	: 🚺.9 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.
Date of issue/Date of revision	: 14/02/2024 Date of previous issue : 18/10/2022 Version : 10 21/31
TEKNOSOLV 9502	Label No : 77458

SECTION 11: Toxicological information

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

Acute toxicity

Result	Species	Dose	Exposure
LC50 Inhalation Vapour	Rat	21.7 mg/l	4 hours
LD50 Oral	Rat	4300 mg/kg	-
LC50 Inhalation Dusts and mists	Rat	29000 mg/l	4 hours
LD50 Dermal	Rabbit	15400 mg/kg	-
LD50 Oral	Rat	3500 mg/kg	-
LD50 Oral	Rat	8400 mg/kg	-
LC50 Inhalation Vapour	Rat	0.74 mg/l	4 hours
LD50 Dermal	Rabbit	14112 mg/kg	-
LD50 Oral	Rat	10760 mg/kg	-
	LC50 Inhalation Vapour LD50 Oral LC50 Inhalation Dusts and mists LD50 Dermal LD50 Oral LD50 Oral LC50 Inhalation Vapour LD50 Dermal	LC50 Inhalation VapourRatLD50 OralRatLC50 Inhalation Dusts andRatmistsInhalation Dusts andLD50 DermalRatLD50 OralRatLD50 OralRatLD50 OralRatLD50 OralRatLD50 OralRatLD50 OralRatLD50 OralRatLD50 DermalRatLD50 DermalRatLD50 DermalRat	LC50 Inhalation VapourRat21.7 mg/lLD50 OralRat4300 mg/kgLC50 Inhalation Dusts andRat29000 mg/lmistsRat15400 mg/kgLD50 DermalRat3500 mg/kgLD50 OralRat8400 mg/kgLD50 OralRat0.74 mg/lLD50 DermalRat0.74 mg/lLD50 DermalRat0.74 mg/lLD50 DermalRat0.74 mg/l

Conclusion/Summary

: Harmful in contact with skin. Harmful if inhaled.

Acute toxicity estimates

Route	ATE value		
	1578.04 mg/kg 12.94 mg/l		

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
X ylene	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
	Skin - Mild irritant	Rat		mg 8 hours 60 uL	
	Skin - Moderate irritant	Rabbit		100 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
		Rabbit	-	mg	-
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15 mg	-
Solvent naphtha (petroleum), light aromatic	Eyes - Mild irritant	Rabbit	-	24 hours 100 uL	-
n-Butyl acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
,	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

Conclusion/Summary	1	Causes skin irritation.
Sensitisation		
Conclusion/Summary	:	Based on available data, the classification criteria are not met.
<u>Mutagenicity</u>		
Conclusion/Summary	:	Based on available data, the classification criteria are not met.
Carcinogenicity		
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 toxici	ty (<u>single exposure)</u>

SECTION 11: Toxicological information

Product/ingredient name	Category	Route of exposure	Target organs
Xylene	Category 3	-	Respiratory tract irritation
Solvent naphtha (petroleum), light aromatic	Category 3	-	Respiratory tract irritation
n-Butyl acetate	Category 3 Category 3	-	Narcotic effects Narcotic effects

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

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

Information on likely routes : Not available. of exposure Potential acute health effects

Eye contact	: Causes serious eye irritation.
Inhalation	: Harmful if inhaled. May cause respiratory irritation.
Skin contact	: Harmful in contact with skin. Causes skin irritation.
Ingestion	: May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: Adverse symptoms may include the following: nausea or vomiting

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

<u>Short term exposure</u>			
Potential immediate effects	: Not available.		
Potential delayed effects	: Not available.		
<u>Long term exposure</u>			
Potential immediate effects	: Not available.		
Potential delayed effects	: Not available.		
Potential chronic health eff	ects		
Not available.			
Conclusion/Summary	: Not available.		
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SECTION 11: Toxicological information

General

- : May cause damage to organs through prolonged or repeated exposure.
- : No known significant effects or critical hazards.
- Carcinogenicity Mutagenicity
- : No known significant effects or critical hazards.
- **Reproductive toxicity**
- : No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Solvent naphtha (petroleum), light aromatic	Acute EC50 3.2 mg/l	Daphnia	48 hours
n-Butyl acetate	Acute LC50 9.2 mg/l Acute LC50 32 mg/l Marine water Acute LC50 18000 µg/l Fresh water	Fish Crustaceans - Artemia salina Fish - Pimephales promelas	96 hours 48 hours 96 hours

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

12.2 Persistence and degradability

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

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
X ylene	3.12	8.1 to 25.9	Low
Ethylbenzene	3.6	-	Low
Solvent naphtha (petroleum),	-	10 to 2500	High
light aromatic			-
n-Butyl acetate	2.3	-	Low

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

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SECTION 13: Disposal considerations

13.1 Waste treatment method	s	
Product		
Methods of disposal	:	The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	1	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	ΙΑΤΑ
14.1 UN number or ID number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL
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.

: Not relevant/applicable due to nature of the product.

Additional information

```
ADR/RID
```

: Tunnel code (D/E)

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

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		%	Designation [Usage]	
FEKNOSOLV 9502		≥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 applical	ole.		
Ozone depleting substance	<u>es (1005/2009/</u>	<u>EU)</u>		
Not listed.				
Prior Informed Consent (Pl	<u>C) (649/2012/E</u>	<u>:U)</u>		
Not listed.				
Persistent Organic Pollutar Not listed.	<u>nts</u>			
Seveso Directive				
This product is controlled und	der the Seveso	Directive		

This product is controlled under the Seveso Directive.

Danger criteria

Category	
P5c	
National regulations	
<u>Austria</u>	
VbF class	: A II Very dangerous flammable liquid.

: Permitted.
: 11
: II-1
: 5-3

Protection based on MAL : According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment: General: Gloves must be worn for all work that may result in soiling. Apron/ coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required. In all spraying operations in which there is return spray, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed. MAL-code: 5-3 Application: When spraying in new* booths if the operator is outside the spray zone. During non-atomising spraying in existing* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone. When using scraper or knife, brush, roller, etc. for pre- and post-treatments outside a closed facility, spray booth or spray cabin. - Air-supplied full mask must be worn. 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. During downtimes, cleaning and repair in closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents. - Air-supplied full mask and coveralls 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 all spraying where atomisation occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cabin or booth. - Air-supplied full mask, coveralls and hood must be worn. **Drying:** Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc, must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone. **Polishing:** When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn. **Caution** The regulations contain other stipulations in addition to the above. *See Regulations. **Restrictions on use** : Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At Work. List of undesirable : Not listed substances **Carcinogenic waste** : Waste containers must be labeled: Contains a substance or substances regulated by Danish working environment legislation on cancer risks. **Finland** France

Social Security Code,	: Xylene	RG 4bis, RG 84
Articles L 461-1 to L 461-7	Ethylbenzene	RG 84
	Solvent naphtha (petroleum), light aromatic	RG 84
	n-Butyl acetate	RG 84
Reinforced medical surveillance	: Act of July 11, 1977 determining the list of activ medical surveillance: not applicable	ities which require reinforced
<u>Germany</u>		

Storage class (TRGS 510) : 3

Hazardous incident ordinance

This product is controlled under the Germany Hazardous Incident Ordinance.

Danger criteria

Category		Reference number
P5c		1.2.5.3
Hazard class for water	: 2	
Technical instruction on air quality control	: TA-Luft Number 5.2.5: 84.7% TA-Luft Class I - Number 5.2.5: 15.3%	

ΑΟΧ

: The product does not contain organically bound halogens which could lead to an AOX value in waste water.

Italy

...

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	•	Reproductive toxicity - Fertility	•	Harmful via breastfeeding
x ylene	-	-	-	Development 2	-
Solvent naphtha (petroleum), light arom.	Listed	Listed	-	-	-

Water Discharge Policy (ABM) : Z(1) Non biodegradable substances with hazardous properties for humans and the environment (carcinogenicity/ mutagenicity/ reprotoxicity/ bioacumulative potential/ toxicity or persistence). Decontamination effort: Z

Chemicals

<u>Norway</u>	
<u>Sweden</u>	
Flammable liquid class (SRVFS 2005:10)	: 2a
Switzerland	
VOC content	: VOC (w/w): 100%
International regulations	
Chemical Weapon Conven	tion List Schedules I, II & III
Not listed.	

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

15.2 Chemical safety
assessment: This product con
required.

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

SECTION 16: Other information

Indicates information that has changed from previously issued version.

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

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

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Acute Tox. 4, H312	Calculation method
Acute Tox. 4, H332	Calculation method
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
STOT SE 3, H335	Calculation method
STOT RE 2, H373	Calculation method
Asp. Tox. 1, H304	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.
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.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications [CLP/GHS]

	ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Cate	aory 2
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Cate	
•	ASPIRATION HAZARD - Category 1	goi y o
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Categor	v 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2	,
	FLAMMABLE LIQUIDS - Category 3	
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2	
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED	
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EX	POSURE - Category 3
Date of issue/ Date of revision	: 14/02/2024	
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Notice to reader		
Date of issue/Date of revisio	n : 14/02/2024 Date of previous issue : 18	/10/2022 Version : 10 29/31
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SECTION 16: Other information

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.