SAFETY DATA SHEET



TEKNOLAC PRIMER 2275-10L - RAL 9005

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

1.1 Product identifier

Product name : TEKNOLAC PRIMER 2275-10L - RAL 9005

1.2 Relevant identified uses of the substance or mixture and uses advised against

Product 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

responsible for this SDS

: Prod-safe@teknos.com

1.4 Emergency telephone number

National advisory body/Poison Centre

: In an emergency, call 112 Telephone number

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

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

Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 **STOT SE 3, H335 STOT RE 2, H373**

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 : Warning

: H226 - Flammable liquid and vapour. **Hazard statements**

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.

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.

P260 - Do not breathe vapour.

Response : P314 - Get medical advice/attention if you feel unwell.

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SECTION 2: Hazards identification

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

Supplemental label

elements

: Contains: Solvent naphtha (petroleum), light aromatic and Xylene

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

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification : None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Solvent naphtha (petroleum), light aromatic	REACH #: 01-2119455851-35 EC: 265-199-0 CAS: 64742-95-6 Index: 649-356-00-4	≤14	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	-	[1]
Xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥10 - ≤25	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 Aquatic Chronic 3, H412	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/	[1] [2]
Ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤5	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) (oral, inhalation) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Inhalation (vapours)] = 11 mg/	[1] [2]
1-Methoxy 2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≤3	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]

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iso-butanol	REACH #: 01-2119484609-23	≤1.3	Flam. Liq. 3, H226 Skin Irrit. 2, H315	-	[1]
	EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1		Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336		
Butan-1-ol	REACH #: 01-2119484630-38 EC: 200-751-6 CAS: 71-36-3 Index: 603-004-00-6	≤1.1	Flam. Liq. 3, H226 Acute Tox. 4, H302 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.	ATE [Oral] = 790 mg/kg	[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.

Type

- [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

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention following exposure or if feeling unwell. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training. 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.

4.2 Most important symptoms and effects, both acute and delayed Over-exposure signs/symptoms

Eye contact

: Adverse symptoms may include the following: pain or irritation watering

redness

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SECTION 4: First aid measures

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

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, CO₂, water spray (fog) or foam.

Unsuitable extinguishing

media

: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous combustion products

Decomposition products may include the following materials:

carbon dioxide carbon monoxide sulfur oxides phosphorus oxides metal oxide/oxides

5.3 Advice for firefighters

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, 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.

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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

6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and material for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Absorb with an inert 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product. 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.

6.4 Reference to other sections

: See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see Section 8). Do not breathe vapour or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.Risk of self-ignition of used cleaning rags, paper wipes etc. Contaminated materials should be soaked in water and placed in a closed metal container before disposal.

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. Store locked up. 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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

Danger criteria

	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonnes	50000 tonnes

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SECTION 7: Handling and storage

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Xylene	Regulation on Limit Values - MAC (Austria, 12/2024) [Xylol (alle Isomeren, rein)] PEAK 15 minutes: 442 mg/m³ 4 times per shift. TWA 8 hours: 50 ppm. PEAK 15 minutes: 100 ppm 4 times per shift. TWA 8 hours: 221 mg/m³.
Ethylbenzene	Regulation on Limit Values - MAC (Austria, 12/2024) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 440 mg/m³. CEIL 5 minutes: 200 ppm 8 times per shift. CEIL 5 minutes: 880 mg/m³ 8 times per shift.
1-Methoxy 2-propanol	Regulation on Limit Values - MAC (Austria, 12/2024) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 187 mg/m³. CEIL: 50 ppm. CEIL: 187 mg/m³.
iso-butanol	Regulation on Limit Values - MAC (Austria, 12/2024) [Butanol (alle Isomeren außer 2-Methyl-2-propanol)] PEAK 15 minutes: 200 ppm 4 times per shift. TWA 8 hours: 150 mg/m³. TWA 8 hours: 50 ppm. PEAK 15 minutes: 600 mg/m³ 4 times per shift.
Butan-1-ol	Regulation on Limit Values - MAC (Austria, 12/2024) [Butanol (alle Isomeren außer 2-Methyl-2-propanol)] PEAK 15 minutes: 200 ppm 4 times per shift. TWA 8 hours: 150 mg/m³. TWA 8 hours: 50 ppm. PEAK 15 minutes: 600 mg/m³ 4 times per shift.
Xylene	Limit values (Belgium, 12/2023) [Xyleen] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m³.
Ethylbenzene	Limit values (Belgium, 12/2023) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 87 mg/m³. STEL 15 minutes: 125 ppm. STEL 15 minutes: 551 mg/m³.
1-Methoxy 2-propanol	Limit values (Belgium, 12/2023) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 184 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 369 mg/m³.
iso-butanol	Limit values (Belgium, 12/2023) TWA 8 hours: 50 ppm.

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TWA 8 hours: 154 mg/m³.

Butan-1-ol Limit values (Belgium, 12)

Limit values (Belgium, 12/2023) Absorbed through skin.

TWA 8 hours: 20 ppm. TWA 8 hours: 62 mg/m³.

Xylene Ministry of Labour and Social Policy and the Ministry of

Health - Ordinance No 13/2003. (Bulgaria, 4/2024) [Xylene]

Absorbed through skin.

Limit value 8 hours: 221 mg/m³. Limit value 15 minutes: 442 mg/m³. Limit value 15 minutes: 100 ppm. Limit value 8 hours: 50 ppm.

Ethylbenzene Ministry of Labour and Social Policy and the Ministry of

Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Absorbed

through skin.

Limit value 8 hours: 435 mg/m³. Limit value 15 minutes: 545 mg/m³.

1-Methoxy 2-propanol Ministry of Labour and Social Policy and the Ministry of

Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Absorbed

through skin.

Limit value 8 hours: 375 mg/m³. Limit value 15 minutes: 568 mg/m³. Limit value 15 minutes: 150 ppm. Limit value 8 hours: 100 ppm.

Butan-1-ol Ministry of Labour and Social Policy and the Ministry of

Health - Ordinance No 13/2003. (Bulgaria, 4/2024)

Limit value 8 hours: 100 mg/m³. Limit value 15 minutes: 150 mg/m³.

Solvent naphtha (petroleum), light aromatic

Ordinance on the protection of workers from exposure to

hazardous chemicals at work, exposure limit values (Annex I) (Croatia)

ELV: 100 ppm. ELV: 400 mg/m³.

Xylene Ordinance on the protection of workers from exposure to

hazardous chemicals at work, exposure limit values (Annex I)

(Croatia, 12/2023) [ksilen] Absorbed through skin.

STELV 15 minutes: 442 mg/m³. STELV 15 minutes: 100 ppm. ELV 8 hours: 221 mg/m³. ELV 8 hours: 50 ppm.

Ethylbenzene Ordinance on the protection of workers from exposure to

hazardous chemicals at work, exposure limit values (Annex I)

(Croatia, 12/2023) Absorbed through skin.

STELV 15 minutes: 884 mg/m³. STELV 15 minutes: 200 ppm. ELV 8 hours: 442 mg/m³. ELV 8 hours: 100 ppm.

1-Methoxy 2-propanol Ordinance on the protection of workers from exposure to

hazardous chemicals at work, exposure limit values (Annex I)

(Croatia, 12/2023)

STELV 15 minutes: 568 mg/m³. STELV 15 minutes: 150 ppm. ELV 8 hours: 375 mg/m³. ELV 8 hours: 100 ppm.

iso-butanol Ordinance on the protection of workers from exposure to

hazardous chemicals at work, exposure limit values (Annex I)

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(Croatia, 12/2023) Absorbed through skin.

STELV 15 minutes: 231 mg/m³. STELV 15 minutes: 75 ppm. ELV 8 hours: 154 mg/m³. ELV 8 hours: 50 ppm.

Butan-1-ol Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I)

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(Croatia, 12/2023) Absorbed through skin.

STELV 15 minutes: 154 mg/m³. STELV 15 minutes: 50 ppm.

Xylene Department of labour inspection (Cyprus, 7/2021) [Ξυλένιο,

μικτά ισομερή, καθαρά] Absorbed through skin.

STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m³. TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m³.

Ethylbenzene Department of labour inspection (Cyprus, 7/2021) Absorbed

through skin.

STEL 15 minutes: 884 mg/m³. TWA 8 hours: 100 ppm. TWA 8 hours: 442 mg/m³. STEL 15 minutes: 200 ppm.

1-Methoxy 2-propanol Department of labour inspection (Cyprus, 7/2021) Absorbed

through skin.

STEL 15 minutes: 150 ppm. STEL 15 minutes: 568 mg/m³. TWA 8 hours: 100 ppm. TWA 8 hours: 375 mg/m³.

Solvent naphtha (petroleum), light aromatic Government regulation of Czech Republic PEL/NPK-P (Czech

Republic, 12/2023) [nafta solventní]

TWA 8 hours: 200 mg/m³. STEL 15 minutes: 1000 mg/m³.

Xylene Government regulation of Czech Republic PEL/NPK-P (Czech

Republic, 12/2023) [xylen] Absorbed through skin.

TWA 8 hours: 200 mg/m³. TWA 8 hours: 45.33 ppm. STEL 15 minutes: 400 mg/m³. STEL 15 minutes: 90.66 ppm.

Ethylbenzene Government regulation of Czech Republic PEL/NPK-P (Czech

Republic, 12/2023) Absorbed through skin.

TWA 8 hours: 200 mg/m³. TWA 8 hours: 45.33 ppm. STEL 15 minutes: 500 mg/m³. STEL 15 minutes: 113.32 ppm.

1-Methoxy 2-propanol Government regulation of Czech Republic PEL/NPK-P (Czech

Republic, 12/2023) Absorbed through skin.

TWA 8 hours: 270 mg/m³. TWA 8 hours: 72.09 ppm. STEL 15 minutes: 550 mg/m³. STEL 15 minutes: 146.84 ppm.

iso-butanol Government regulation of Czech Republic PEL/NPK-P (Czech

Republic, 12/2023) [butanol]
TWA 8 hours: 300 mg/m³.
TWA 8 hours: 97 ppm.
STEL 15 minutes: 600 mg/m³.
STEL 15 minutes: 194 ppm.

Butan-1-ol Government regulation of Czech Republic PEL/NPK-P (Czech

Republic, 12/2023) [butanol]
TWA 8 hours: 300 mg/m³.
TWA 8 hours: 97 ppm.
STEL 15 minutes: 600 mg/m³.
STEL 15 minutes: 194 ppm.

Xylene Working Environment Authority (Denmark, 12/2024) [xylen,

alle isomere] Absorbed through skin.

TWA 8 hours: 25 ppm. TWA 8 hours: 109 mg/m³. STEL 15 minutes: 442 mg/m³. STEL 15 minutes: 100 ppm.

Ethylbenzene Working Environment Authority (Denmark, 12/2024) K.

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Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 217 mg/m³. STEL 15 minutes: 434 mg/m³. STEL 15 minutes: 100 ppm. Working Environment Authority (Denmark, 12/2024) 1-Methoxy 2-propanol [1-methoxy-2-propanol] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 185 mg/m³. STEL 15 minutes: 568 mg/m³. STEL 15 minutes: 150 ppm. iso-butanol Working Environment Authority (Denmark, 12/2024) [butanol, alle isomere] Absorbed through skin. CEIL: 50 ppm. CEIL: 150 mg/m³. Butan-1-ol Working Environment Authority (Denmark, 12/2024) [butanol, alle isomere] Absorbed through skin. CEIL: 50 ppm. CEIL: 150 mg/m³. Occupational exposure limits, Regulation No. 293 (Estonia, **Xylene** 4/2024) [ksüleen] Absorbed through skin. TWA 8 hours: 50 ppm. STEL 15 minutes: 100 ppm. STEL 15 minutes: 450 mg/m³. TWA 8 hours: 200 mg/m³. Occupational exposure limits, Regulation No. 293 (Estonia, Ethylbenzene 4/2024) Absorbed through skin, Sensitiser. TWA 8 hours: 442 mg/m³. TWA 8 hours: 100 ppm. STEL 15 minutes: 884 mg/m³. STEL 15 minutes: 200 ppm. 1-Methoxy 2-propanol Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) Absorbed through skin, Sensitiser. TWA 8 hours: 375 mg/m³. TWA 8 hours: 100 ppm. STEL 15 minutes: 568 mg/m³. STEL 15 minutes: 150 ppm. Occupational exposure limits, Regulation No. 293 (Estonia, iso-butanol 4/2024) TWA 8 hours: 150 mg/m³. TWA 8 hours: 50 ppm. Butan-1-ol Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) Absorbed through skin. TWA 8 hours: 45 mg/m³. TWA 8 hours: 15 ppm. STEL 5 minutes: 90 ma/m3. STEL 5 minutes: 30 ppm. **Xylene** EU OEL (Europe, 1/2022) [xylene, mixed isomers] Absorbed through skin.

> TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m³.

Ethylbenzene EU OEL (Europe, 1/2022) Absorbed through skin.

TWA 8 hours: 100 ppm. TWA 8 hours: 442 mg/m³. STEL 15 minutes: 200 ppm. STEL 15 minutes: 884 mg/m³.

EU OEL (Europe, 1/2022) Absorbed through skin. 1-Methoxy 2-propanol

TWA 8 hours: 100 ppm. TWA 8 hours: 375 ma/m3. STEL 15 minutes: 150 ppm.

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Solvent naphtha (petroleum), light aromatic

Xylene

STEL 15 minutes: 568 mg/m³.

Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2020)

TWA 8 hours: 100 mg/m³.

Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) [Ksyleeni] Absorbed through skin.

STEL 15 minutes: 440 mg/m³. TWA 8 hours: 220 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 100 ppm.

Ethylbenzene Institute of Occupational Health, Ministry of Social Affairs

(Finland, 10/2021) Absorbed through skin.

TWA 8 hours: 50 ppm. TWA 8 hours: 220 mg/m³. STEL 15 minutes: 200 ppm. STEL 15 minutes: 880 mg/m³.

Institute of Occupational Health, Ministry of Social Affairs 1-Methoxy 2-propanol

(Finland, 10/2021) Absorbed through skin.

TWA 8 hours: 100 ppm. TWA 8 hours: 370 mg/m³. STEL 15 minutes: 150 ppm. STEL 15 minutes: 560 mg/m³.

iso-butanol Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) [Butanoli] Absorbed through skin.

> TWA 8 hours: 50 ppm. TWA 8 hours: 150 mg/m³. STEL 15 minutes: 75 ppm. STEL 15 minutes: 230 mg/m³.

Butan-1-ol Institute of Occupational Health, Ministry of Social Affairs

(Finland, 10/2021) Absorbed through skin.

TWA 8 hours: 50 ppm. TWA 8 hours: 150 mg/m³. STEL 15 minutes: 75 ppm. STEL 15 minutes: 230 mg/m³.

Solvent naphtha (petroleum), light aromatic

Ministry of Labor (France, 6/2024) [hydrocarbures en C6-C12]

TWA 8 hours: 1000 mg/m³. Form: Vapour. Notes: Permissible limit values (circulars)

STEL 15 minutes: 1500 mg/m³. Form: Vapour. Notes:

Permissible limit values (circulars)

Xylene Ministry of Labor (France, 6/2024) [xylènes, isomères mixtes, purs] Absorbed through skin.

STEL 15 minutes: 442 mg/m³. Notes: Binding regulatory limit

values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 100 ppm. Notes: Binding regulatory limit values

(article R. 4412-149 of the Labor Code) TWA 8 hours: 221 mg/m³. Notes: Binding regulatory limit values

(article R. 4412-149 of the Labor Code) TWA 8 hours: 50 ppm. Notes: Binding regulatory limit values

(article R. 4412-149 of the Labor Code)

Ethylbenzene Ministry of Labor (France, 6/2024) Absorbed through skin.

> TWA 8 hours: 20 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)

TWA 8 hours: 88.4 mg/m³. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)

STEL 15 minutes: 442 mg/m³. Notes: Binding regulatory limit

values (article R. 4412-149 of the Labor Code)

STEL 15 minutes: 100 ppm. Notes: Binding regulatory limit values

(article R. 4412-149 of the Labor Code)

1-Methoxy 2-propanol Ministry of Labor (France, 6/2024) Absorbed through skin.

TWA 8 hours: 50 ppm. Notes: Binding regulatory limit values

(article R. 4412-149 of the Labor Code)

TWA 8 hours: 188 mg/m³. Notes: Binding regulatory limit values

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SECTION 8: Exposure controls/personal protection (article R. 4412-149 of the Labor Code) STEL 15 minutes: 375 mg/m³. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 100 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) Ministry of Labor (France, 6/2024) iso-butanol TWA 8 hours: 50 ppm. Notes: Permissible limit values (circulars) TWA 8 hours: 150 mg/m³. Notes: Permissible limit values (circulars) Butan-1-ol Ministry of Labor (France, 6/2024) STEL 15 minutes: 50 ppm. Notes: Permissible limit values STEL 15 minutes: 150 mg/m³. Notes: Permissible limit values (circulars) **Xylene** TRGS 900 OEL (Germany, 6/2024) [Xylol] Absorbed through skin. TWA 8 hours: 220 mg/m³. PEAK 15 minutes: 440 mg/m³. TWA 8 hours: 50 ppm. PEAK 15 minutes: 100 ppm. DFG MAC-values list (Germany, 7/2024) [Xylene] Develop D. Absorbed through skin. TWA 8 hours: 50 ppm. PEAK 15 minutes: 100 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 220 mg/m³. PEAK 15 minutes: 440 mg/m³ 4 times per shift [Interval: 1 hour]. TRGS 900 OEL (Germany, 6/2024) Absorbed through skin. Ethylbenzene TWA 8 hours: 88 mg/m³. PEAK 15 minutes: 176 mg/m³. TWA 8 hours: 20 ppm. PEAK 15 minutes: 40 ppm. DFG MAC-values list (Germany, 7/2024) Carc 4, Develop C. Absorbed through skin. PEAK 15 minutes: 40 ppm 4 times per shift [Interval: 1 hour]. PEAK 15 minutes: 176 mg/m³ 4 times per shift [Interval: 1 hour]. TWA 8 hours: 88 mg/m³. TWA 8 hours: 20 ppm. TRGS 900 OEL (Germany, 6/2024) 1-Methoxy 2-propanol TWA 8 hours: 370 mg/m³. PEAK 15 minutes: 740 mg/m³. TWA 8 hours: 100 ppm. PEAK 15 minutes: 200 ppm. DFG MAC-values list (Germany, 7/2024) Develop C. TWA 8 hours: 100 ppm. PEAK 15 minutes: 200 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 370 mg/m³. PEAK 15 minutes: 740 mg/m³ 4 times per shift [Interval: 1 hour]. iso-butanol TRGS 900 OEL (Germany, 6/2024) TWA 8 hours: 310 mg/m³. PEAK 15 minutes: 310 mg/m³. TWA 8 hours: 100 ppm. PEAK 15 minutes: 100 ppm. DFG MAC-values list (Germany, 7/2024) Develop C. TWA 8 hours: 100 ppm. PEAK 15 minutes: 100 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 310 mg/m³. PEAK 15 minutes: 310 mg/m³ 4 times per shift [Interval: 1 hour].

Butan-1-ol

TRGS 900 OEL (Germany, 6/2024)

TWA 8 hours: 310 mg/m³. PEAK 15 minutes: 310 mg/m³. TWA 8 hours: 100 ppm. PEAK 15 minutes: 100 ppm.

DFG MAC-values list (Germany, 7/2024) Develop C.

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TWA 8 hours: 100 ppm.

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SECTION 8: Exposure controls/personal protection PEAK 15 minutes: 100 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 310 mg/m³. PEAK 15 minutes: 310 mg/m³ 4 times per shift [Interval: 1 hour]. **Xylene** Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024) [ξυλόλια (όλα τα ισομερή)] Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 435 mg/m³. STEL 15 minutes: 150 ppm. STEL 15 minutes: 650 mg/m³. Ethylbenzene Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024) TWA 8 hours: 100 ppm. TWA 8 hours: 435 mg/m³. STEL 15 minutes: 125 ppm. STEL 15 minutes: 545 mg/m³. Presidential Decree 307/1986: Occupational exposure limit 1-Methoxy 2-propanol values (Greece, 8/2024) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 360 mg/m³. STEL 15 minutes: 300 ppm. STEL 15 minutes: 1080 mg/m³. iso-butanol Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024) TWA 8 hours: 100 ppm. TWA 8 hours: 300 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 300 mg/m³. Butan-1-ol Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 300 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 300 mg/m³. 5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) [xilol izomerek **Xylene** keveréke] Absorbed through skin. TWA 8 hours: 221 mg/m³. PEAK 15 minutes: 442 mg/m³. PEAK 15 minutes: 100 ppm. TWA 8 hours: 50 ppm. Ethylbenzene 5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) Absorbed through TWA 8 hours: 442 mg/m³. PEAK 15 minutes: 884 mg/m³. PEAK 15 minutes: 200 ppm. TWA 8 hours: 100 ppm. 5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) Absorbed through 1-Methoxy 2-propanol skin. TWA 8 hours: 375 mg/m³. PEAK 15 minutes: 568 mg/m³. PEAK 15 minutes: 150 ppm. TWA 8 hours: 100 ppm. 5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) Absorbed through Butan-1-ol

PEAK 15 minutes: 90 mg/m³.

skin.

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TWA 8 hours: 45 mg/m³.

Xylene Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024)

[Xýlen, allir ísómerar] Absorbed through skin.

STEL 15 minutes: 442 mg/m³. STEL 15 minutes: 100 ppm. TWA 8 hours: 109 mg/m³. TWA 8 hours: 25 ppm.

Ethylbenzene Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024)

Absorbed through skin.

STEL 15 minutes: 884 mg/m³. STEL 15 minutes: 200 ppm. TWA 8 hours: 200 mg/m³. TWA 8 hours: 50 ppm.

Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024) 1-Methoxy 2-propanol

Absorbed through skin.

STEL 15 minutes: 568 mg/m³. STEL 15 minutes: 150 ppm. TWA 8 hours: 185 mg/m³. TWA 8 hours: 50 ppm.

iso-butanol Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024)

[Bútanól, allir ísomerar nema n-bútanól] Absorbed through skin.

STEL 15 minutes: 150 mg/m³. STEL 15 minutes: 50 ppm.

Butan-1-ol Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024)

Absorbed through skin.

STEL 15 minutes: 150 mg/m³. STEL 15 minutes: 50 ppm. TWA 8 hours: 80 mg/m³. TWA 8 hours: 25 ppm.

Xylene NAOSH (Ireland, 4/2024) [xylene] Absorbed through skin. Notes:

EU derived Occupational Exposure Limit Values

OELV 8 hours: 50 ppm. OELV 8 hours: 221 mg/m³. OELV 15 minutes: 100 ppm. OELV 15 minutes: 442 mg/m³.

Ethylbenzene NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: EU

derived Occupational Exposure Limit Values

OELV 8 hours: 100 ppm. OELV 8 hours: 442 mg/m³. OELV 15 minutes: 200 ppm. OELV 15 minutes: 884 mg/m³.

NAOSH (Ireland, 4/2024) Notes: EU derived Occupational 1-Methoxy 2-propanol

> Exposure Limit Values OELV 8 hours: 100 ppm. OELV 8 hours: 375 mg/m3. OELV 15 minutes: 150 ppm. OELV 15 minutes: 568 mg/m³.

NAOSH (Ireland, 4/2024) Notes: Advisory Occupational Exposure iso-butanol

> Limit Values (OELVs) OELV 8 hours: 150 ppm. OELV 8 hours: 700 mg/m³.

Butan-1-ol NAOSH (Ireland, 4/2024) Notes: Advisory Occupational Exposure

> Limit Values (OELVs) OELV 8 hours: 20 ppm.

Legislative Decree No. 81/2008. Title IX. Protection from **Xylene**

chemical agents, carcinogens and mutagens (Italy, 9/2024)

[xilene, isomeri misti, puro] Absorbed through skin.

Limit value 8 hours: 50 ppm. Limit value 8 hours: 221 mg/m³. Short Term 15 minutes: 100 ppm. Short Term 15 minutes: 442 mg/m³.

Legislative Decree No. 81/2008. Title IX. Protection from Ethylbenzene chemical agents, carcinogens and mutagens (Italy, 9/2024)

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Absorbed through skin.

Limit value 8 hours: 100 ppm. Limit value 8 hours: 442 mg/m³. Short Term 15 minutes: 200 ppm. Short Term 15 minutes: 884 mg/m³.

1-Methoxy 2-propanol

Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 9/2024)

Absorbed through skin.

Limit value 8 hours: 100 ppm. Limit value 8 hours: 375 mg/m³. Short Term 15 minutes: 150 ppm. Short Term 15 minutes: 568 mg/m³.

Xylene

Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)

[Ksilols] Absorbed through skin. TWA 8 hours: 221 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m³.

Ethylbenzene

Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)

Absorbed through skin. TWA 8 hours: 442 mg/m³. TWA 8 hours: 100 ppm. STEL 15 minutes: 200 ppm. STEL 15 minutes: 884 mg/m³.

1-Methoxy 2-propanol

Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)

Absorbed through skin. TWA 8 hours: 100 ppm. STEL 15 minutes: 568 mg/m³. TWA 8 hours: 375 mg/m³. STEL 15 minutes: 150 ppm.

iso-butanol

Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)

[Butilspirti]

TWA 8 hours: 10 mg/m³.

Butan-1-ol

Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)

[Butilspirti]

TWA 8 hours: 10 mg/m³.

Xylene

Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) [ksilenas, mišrūs izomerai, grynas] Absorbed through skin.

STEL 15 minutes: 442 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 100 ppm. TWA 8 hours: 221 mg/m³.

Ethylbenzene

Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)

Absorbed through skin. TWA 8 hours: 442 mg/m³. TWA 8 hours: 100 ppm. STEL 15 minutes: 884 mg/m³. STEL 15 minutes: 200 ppm.

1-Methoxy 2-propanol

Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)

Absorbed through skin. TWA 8 hours: 190 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 300 mg/m³. STEL 15 minutes: 75 ppm.

iso-butanol

Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)

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

Butan-1-ol

Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)

Absorbed through skin. TWA 8 hours: 45 mg/m³. TWA 8 hours: 15 ppm. CEIL: 90 mg/m³.

CEIL: 30 ppm.

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SECTION 8: Exposure controls/personal protection **Xylene** Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) [xylène Isomères mixtes, pures] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m³. Grand-Duchy Regulation 2016. Chemical agents. Annex I Ethylbenzene (Luxembourg, 3/2021) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 442 mg/m³. STEL 15 minutes: 200 ppm. STEL 15 minutes: 884 mg/m³. 1-Methoxy 2-propanol Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 375 mg/m³. STEL 15 minutes: 150 ppm. STEL 15 minutes: 568 mg/m³. **Xylene** EU OEL (Europe, 1/2022) [xylene, mixed isomers] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m³. EU OEL (Europe, 1/2022) Absorbed through skin. Ethylbenzene TWA 8 hours: 100 ppm. TWA 8 hours: 442 mg/m³. STEL 15 minutes: 200 ppm. STEL 15 minutes: 884 mg/m³. EU OEL (Europe, 1/2022) Absorbed through skin. 1-Methoxy 2-propanol TWA 8 hours: 100 ppm. TWA 8 hours: 375 mg/m³. STEL 15 minutes: 150 ppm. STEL 15 minutes: 568 mg/m³. Ministry of Social Affairs and Employment, Legal limit values **Xylene** (Netherlands, 5/2024) [xyleen, o-, m-, p-isomeren] Absorbed through skin. TWA 8 hours: 210 mg/m³. STEL 15 minutes: 442 mg/m³. STEL 15 minutes: 100 ppm. TWA 8 hours: 47.5 ppm. Ethylbenzene Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) Absorbed through skin. TWA 8 hours: 215 mg/m³. STEL 15 minutes: 430 mg/m³. STEL 15 minutes: 97.3 ppm. TWA 8 hours: 48.6 ppm. 1-Methoxy 2-propanol Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) Absorbed through skin. TWA 8 hours: 375 mg/m³. STEL 15 minutes: 563 mg/m³. TWA 8 hours: 100 ppm. STEL 15 minutes: 150 ppm. **Xylene** FOR-2011-12-06-1358 (Norway, 5/2024) [xylen] Absorbed through skin. TWA 8 hours: 25 ppm. TWA 8 hours: 108 mg/m³.

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TWA 8 hours: 5 ppm.

FOR-2011-12-06-1358 (Norway, 5/2024) Carc. Absorbed through

Ethylbenzene

1-Methoxy 2-propanol

TWA 8 hours: 20 mg/m³.

FOR-2011-12-06-1358 (Norway, 5/2024) Absorbed through skin.

TWA 8 hours: 50 ppm. TWA 8 hours: 180 mg/m³.

iso-butanol

FOR-2011-12-06-1358 (Norway, 5/2024) Absorbed through skin.

CEIL: 75 mg/m³. CEIL: 25 ppm.

Butan-1-ol

Ethylbenzene

iso-butanol

Butan-1-ol

1-Methoxy 2-propanol

FOR-2011-12-06-1358 (Norway, 5/2024) Absorbed through skin.

CEIL: 75 mg/m³. CEIL: 25 ppm.

Xylene

Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 7/2024) [xylene – mixed isomers (1,2-, 1,3-, 1,4-)] Absorbed through skin.

TWA 8 hours: 100 mg/m³. STEL 15 minutes: 200 mg/m³.

Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 7/2024) Absorbed through skin.

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

Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 7/2024) Absorbed through skin.

TWA 8 hours: 180 mg/m³. STEL 15 minutes: 360 mg/m³.

Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 7/2024) Absorbed through skin.

TWA 8 hours: 100 mg/m³. STEL 15 minutes: 200 mg/m³.

Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland,

7/2024) Absorbed through skin. TWA 8 hours: 50 mg/m³. STEL 15 minutes: 150 mg/m³.

Xylene Portuguese Institute of

Portuguese Institute of Quality (Portugal, 11/2014) [xileno (isómeros o, m & p)] A4.

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

Decree-Law 24/2012 - Occupational exposure limits for chemical agents (Portugal, 6/2021) [xilenos] Absorbed through

STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m³. TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m³.

Ethylbenzene

Portuguese Institute of Quality (Portugal, 11/2014) A3.

TWA 8 hours: 20 ppm.

Decree-Law 24/2012 - Occupational exposure limits for chemical agents (Portugal, 6/2021) Absorbed through skin.

STEL 15 minutes: 200 ppm.

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STEL 15 minutes: 884 mg/m³. TWA 8 hours: 100 ppm. TWA 8 hours: 442 mg/m³. Portuguese Institute of Quality (Portugal, 11/2014) A4. 1-Methoxy 2-propanol TWA 8 hours: 50 ppm. STEL 15 minutes: 100 ppm. Decree-Law 24/2012 - Occupational exposure limits for chemical agents (Portugal, 6/2021) STEL 15 minutes: 150 ppm. STEL 15 minutes: 568 mg/m³. TWA 8 hours: 100 ppm. TWA 8 hours: 375 mg/m³. iso-butanol Portuguese Institute of Quality (Portugal, 11/2014) TWA 8 hours: 50 ppm. Butan-1-ol Portuguese Institute of Quality (Portugal, 11/2014) TWA 8 hours: 20 ppm. HG 1218/2006, Annex 1, with subsequent modifications and Solvent naphtha (petroleum), light aromatic additions (Romania, 3/2024) [Solvent nafta] Absorbed through VLA 8 hours: 100 ma/m³. Short term 15 minutes: 200 mg/m3. **Xylene** HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) [xilen] Absorbed through skin. VLA 8 hours: 221 mg/m³. VLA 8 hours: 50 ppm. Short term 15 minutes: 442 mg/m³. Short term 15 minutes: 100 ppm. HG 1218/2006, Annex 1, with subsequent modifications and Ethylbenzene additions (Romania, 3/2024) Absorbed through skin. VLA 8 hours: 442 mg/m³. VLA 8 hours: 100 ppm. Short term 15 minutes: 884 mg/m³. Short term 15 minutes: 200 ppm. HG 1218/2006, Annex 1, with subsequent modifications and 1-Methoxy 2-propanol additions (Romania, 3/2024) Absorbed through skin. VLA 8 hours: 375 ma/m3. VLA 8 hours: 100 ppm. Short term 15 minutes: 568 mg/m³. Short term 15 minutes: 150 ppm. HG 1218/2006, Annex 1, with subsequent modifications and iso-butanol additions (Romania, 3/2024) VLA 8 hours: 100 mg/m³. VLA 8 hours: 33 ppm. Short term 15 minutes: 200 mg/m³. Short term 15 minutes: 66 ppm. Butan-1-ol HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) VLA 8 hours: 100 mg/m³. VLA 8 hours: 33 ppm. Short term 15 minutes: 200 mg/m3. Short term 15 minutes: 66 ppm. **Xylene** Government regulation SR c. 355/2006 (Slovakia, 6/2024) [xylén, zmiešané izoméry] Absorbed through skin, Inhalation sensitiser. TWA 8 hours: 221 mg/m³ (xylene, mixed isomers). TWA 8 hours: 50 ppm (xylene, mixed isomers). STEL 15 minutes: 442 mg/m³ (xylene, mixed isomers).

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TWA 8 hours: 442 mg/m³. TWA 8 hours: 100 ppm.

STEL 15 minutes: 100 ppm (xylene, mixed isomers).

Absorbed through skin, Inhalation sensitiser.

Government regulation SR c. 355/2006 (Slovakia, 6/2024)

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Ethylbenzene

1-Methoxy 2-propanol

STEL 15 minutes: 884 mg/m³. STEL 15 minutes: 200 ppm.

Government regulation SR c. 355/2006 (Slovakia, 6/2024)

Absorbed through skin, Inhalation sensitiser.

TWA 8 hours: 375 mg/m³. TWA 8 hours: 100 ppm. STEL 15 minutes: 568 mg/m³. STEL 15 minutes: 150 ppm.

Government regulation SR c. 355/2006 (Slovakia, 6/2024)

[butylalkoholy] Inhalation sensitiser. TWA 8 hours: 310 mg/m³ (Butyl alkohols). TWA 8 hours: 100 ppm (Butyl alkohols).

Government regulation SR c. 355/2006 (Slovakia, 6/2024)

[butvlalkoholv] Inhalation sensitiser. TWA 8 hours: 310 mg/m³ (Butyl alkohols). TWA 8 hours: 100 ppm (Butyl alkohols).

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)

[ksilen] Absorbed through skin. TWA 8 hours: 221 mg/m³.

TWA 8 hours: 50 ppm.

KTV 15 minutes: 442 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 100 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)

Absorbed through skin. TWA 8 hours: 442 mg/m³. TWA 8 hours: 100 ppm.

KTV 15 minutes: 884 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 200 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)

Absorbed through skin. TWA 8 hours: 375 mg/m³. TWA 8 hours: 100 ppm.

KTV 15 minutes: 568 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 150 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)

TWA 8 hours: 310 mg/m³. TWA 8 hours: 100 ppm.

KTV 15 minutes: 310 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 100 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)

TWA 8 hours: 310 mg/m³. TWA 8 hours: 100 ppm.

KTV 15 minutes: 310 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 100 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

iso-butanol

Butan-1-ol

Xylene

Ethylbenzene

1-Methoxy 2-propanol

iso-butanol

Butan-1-ol

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National institute of occupational safety and health (Spain, **Xylene** 1/2024) [xileno, mezcla isómeros] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m³. Ethylbenzene National institute of occupational safety and health (Spain, 1/2024) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 441 mg/m³. STEL 15 minutes: 200 ppm. STEL 15 minutes: 884 mg/m³. National institute of occupational safety and health (Spain, 1-Methoxy 2-propanol 1/2024) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 375 mg/m³. STEL 15 minutes: 150 ppm. STEL 15 minutes: 568 mg/m³. iso-butanol National institute of occupational safety and health (Spain, 1/2024) TWA 8 hours: 50 ppm. TWA 8 hours: 154 mg/m³. Butan-1-ol National institute of occupational safety and health (Spain, 1/2024) STEL 15 minutes: 50 ppm. STEL 15 minutes: 154 mg/m³. TWA 8 hours: 20 ppm. TWA 8 hours: 61 mg/m³. **Xylene** Work environment authority Regulation 2018:1 (Sweden, 11/2022) [xylene] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m³. Ethylbenzene Work environment authority Regulation 2018:1 (Sweden, 11/2022) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 220 mg/m³. STEL 15 minutes: 200 ppm. STEL 15 minutes: 884 mg/m³. Work environment authority Regulation 2018:1 (Sweden, 1-Methoxy 2-propanol 11/2022) Absorbed through skin. STEL 15 minutes: 150 ppm. STEL 15 minutes: 568 mg/m³. TWA 8 hours: 190 mg/m³. TWA 8 hours: 50 ppm. iso-butanol Work environment authority Regulation 2018:1 (Sweden, 11/2022) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 150 mg/m³. STEL 15 minutes: 75 ppm. STEL 15 minutes: 250 mg/m³. Butan-1-ol Work environment authority Regulation 2018:1 (Sweden, 11/2022) Absorbed through skin. TWA 8 hours: 15 ppm. TWA 8 hours: 45 mg/m³. STEL 15 minutes: 30 ppm.

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STEL 15 minutes: 90 mg/m³.

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Xylene SUVA (Switzerland, 1/2025) [Xylol] Absorbed through skin.

> TWA 8 hours: 50 ppm. TWA 8 hours: 220 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 440 mg/m³.

SUVA (Switzerland, 1/2025) Absorbed through skin, Ototoxicant. Ethylbenzene

> TWA 8 hours: 50 ppm. TWA 8 hours: 220 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 220 mg/m3.

1-Methoxy 2-propanol SUVA (Switzerland, 1/2025)

> TWA 8 hours: 100 ppm. TWA 8 hours: 360 mg/m³. STEL 15 minutes: 200 ppm. STEL 15 minutes: 720 mg/m³.

SUVA (Switzerland, 1/2025) iso-butanol TWA 8 hours: 50 ppm.

TWA 8 hours: 150 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 150 mg/m³.

Butan-1-ol SUVA (Switzerland, 1/2025) TWA 8 hours: 100 ppm.

TWA 8 hours: 310 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 310 mg/m³.

Xylene EH40/2005 WELs (United Kingdom (UK), 1/2020) [xylene, o-,m-,

p- or mixed isomers] Absorbed through skin.

STEL 15 minutes: 441 mg/m³. TWA 8 hours: 50 ppm. TWA 8 hours: 220 mg/m³. STEL 15 minutes: 100 ppm.

EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed Ethylbenzene

through skin.

STEL 15 minutes: 552 mg/m³. STEL 15 minutes: 125 ppm. TWA 8 hours: 100 ppm. TWA 8 hours: 441 mg/m³.

1-Methoxy 2-propanol EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed

through skin.

STEL 15 minutes: 560 mg/m³. STEL 15 minutes: 150 ppm. TWA 8 hours: 375 mg/m³. TWA 8 hours: 100 ppm.

EH40/2005 WELs (United Kingdom (UK), 1/2020) iso-butanol

> STEL 15 minutes: 231 mg/m³. STEL 15 minutes: 75 ppm. TWA 8 hours: 154 mg/m³. TWA 8 hours: 50 ppm.

Butan-1-ol EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed

through skin.

STEL 15 minutes: 154 mg/m3. STEL 15 minutes: 50 ppm.

Biological exposure indices

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•	•
Product/ingredient name	Exposure indices
Xylene	VGU BEI (Austria, 9/2020) [Xylole] BEI Fitness: 1000 μg/l, xylene [in blood]. Sampling time: one year. BEI Fitness: 1.5 g/l, methylhippuricacid [in urine]. Sampling time: one year.
No exposure indices known.	
Ethylbenzene	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Notes: significant skin resorption possible BLV: 2000 mg/g creatinine, mandelic acid and phenylglyoxylic acid – in total [in urine]. Sampling time: at the end of the exposure or at the end of the work shift.
Xylene	Ordinance on the protection of workers from exposure to hazardous chemicals at work, biological limit values (Annex IV) (Croatia, 12/2023) [ksilen] 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	Ordinance on the protection of workers from exposure to hazardous chemicals at work, biological limit values (Annex IV) (Croatia, 12/2023) 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.	Š
Xylene	Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015) [Xyleny] 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.	

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Xylene

Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) [Ksyleeni]

BEI: 5 mmol/l, methylhippuricacid [in urine]. Sampling time: at the end of the work shift.

Ethylbenzene

Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020)

BEI: 5.2 mmol/l, mandelic acid [in urine]. Sampling time: after work shift at the end of the working week or exposure period.

No exposure indices known.

Xylene

Ethylbenzene

DFG BEI-values list (Germany, 7/2024) [Xylene (all isomers)]

Notes: danger from percutaneous absorption (see p. 211 and p. 228).

BEI: 1800 mg/g creatinine, Methylhippuric acids (=toluric acids) (all isomers) [in urine]. Sampling time: end of exposure or end of shift.

TRGS 903 - BEI Values (Germany, 10/2024) [Xylol alle Isomeren]

BEI: 2000 mg/l, methylhippuric acid [in urine]. Sampling time: end of exposure or end of shift.

DFG BEI-values list (Germany, 7/2024) 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, 10/2024)

BEI: 250 mg/g creatinine, mandelic acid plus phenylglyoxylic acid [in urine]. Sampling time: end of exposure or end of shift.

1-Methoxy 2-propanol

DFG BEI-values list (Germany, 7/2024)

BEI: 15 mg/l, propylene glycol 1-methyl ether [in urine]. Sampling time: end of exposure or end of shift.

TRGS 903 - BEI Values (Germany, 10/2024)

BEI: 15 mg/l, 1-methoxypropan-2-ol [in urine]. Sampling time: end of exposure or end of shift.

Butan-1-ol

DFG BEI-values list (Germany, 7/2024)

BEI: 2 mg/g creatinine, 1-butanol [in urine]. Sampling time: at the beginning of the next shift.

BEI: 10 mg/g creatinine, 1-butanol [in urine]. Sampling time: end of exposure or end of shift.

TRGS 903 - BEI Values (Germany, 10/2024)

BEI: 2 mg/g creatinine, butan-1-ol (butanol-1) (after hydrolysis) [in urine]. Sampling time: at the beginning of the next shift.

BEI: 10 mg/g creatinine, butan-1-ol (butanol-1) (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift.

No exposure indices known.

Xylene

5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) [xilol]

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, 12/2023)

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.

Butan-1-ol

5/2020. (II. 6.) ITM Decree (Hungary, 12/2023)

BEI: 15 µmol/mmol creatinine, n-butyl-alcohol (after hydrolysis) [in urine]. Sampling time: at the end of the shift.

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BEI: 10 mg/g creatinine, n-butyl-alcohol (after hydrolysis) [in urine]. Sampling time: at the end of the shift.

BEI: 3 µmol/mmol creatinine, n-butyl-alcohol (after hydrolysis) [in urine]. Sampling time: before the next shift.

BEI: 2 mg/g creatinine, n-butyl-alcohol (after hydrolysis) [in urine]. Sampling time: before the next shift.

No exposure indices known.

Xylene

Ethylbenzene

No exposure indices known.

Xylene

No exposure indices known.

Xylene

Ethylbenzene

Xylene

Ethylbenzene

NAOSH BGVs (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.

NAOSH BGVs (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.

Minister Cabinet Regulations No.325 - BEI (Latvia, 3/2024) [ksiloli (visi izomēri)]

BEI: 2000 mg/l, methylhippuric (toluric) acid (all isomers) [in urine]. Sampling time: at the end of the exposure or at the end of the shift.

Portuguese Institute of Quality (Portugal, 11/2014) [Xilenos (graus técnico e comercial)]

BEI: 1.5 g/g creatinine, (o, m, p) -methyl-boronic acids [in urine]. Sampling time: end of shift.

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.

HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2024) [xilen]

OBLV: 3 g/l, methylhippuric acid [in urine]. Sampling time: end of shift.

HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2024)

OBLV: 1.5 g/g creatinine, mandelic acid [in urine]. Sampling time: end of the week.

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Xylene

Government regulation SR c. 355/2006 (Slovakia, 6/2024) [xylén (všetky izoméry)]

BLV: 781 µmol/mmol creatinine, as sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 1334 mg/g creatinine, as sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 10355 µmol/l, as sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 14.6 µmol/l, as xylene [in blood]. Sampling time: at the end of exposure or work shift.

BLV: 2000 mg/l, as sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 1.5 mg/l, as xylene [in blood]. Sampling time: at the end of exposure or work shift.

Ethylbenzene

Government regulation SR c. 355/2006 (Slovakia, 6/2024)

BLV: 799 µmol/mmol creatinine, as mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work

BLV: 7.44 µmol/mmol creatinine, as 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, as 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, as 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, as mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; longterm exposure: after several work shifts.

BLV: 98.6 µmol/l, as 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, as mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; longterm exposure: after several work shifts.

BLV: 12 mg/l, as 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

Butan-1-ol

Xylene

Government regulation SR c. 355/2006 (Slovakia, 6/2024)

BLV: 15.34 µmol/mmol creatinine, as n-butyl alcohol [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 10 mg/g creatinine, as n-butyl alcohol [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 3.13 µmol/mmol creatinine, as n-butyl alcohol [in urine]. Sampling time: before the next work shift.

BLV: 2 mg/g creatinine, as n-butyl alcohol [in urine]. Sampling time: before the next work shift.

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) [ksilen (vse izomere)]

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, 4/2024)

BAT: 250 mg/g creatinine, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of the work shift.

Regulation on protection of workers from the risks related to

1-Methoxy 2-propanol

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exposure to chemical substances at work (Slovenia, 4/2024)

BAT: 15 mg/l, 1-methoxypropan-2-ol [in urine]. Sampling time: at the end of the work shift.

Butan-1-ol

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)

BAT: 10 mg/g creatinine, 1-butanol (after hydrolysis) [in urine]. Sampling time: at the end of the work shift.

BAT: 2 mg/g creatinine, 1-butanol (after hydrolysis) [in urine].

Sampling time: before the work shift.

National institute of occupational safety and health (Spain, 1/2024) [Xilenos]

VLB: 1 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift.

Ethylbenzene

Xylene

National institute of occupational safety and health (Spain, 1/2024)

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.

SUVA (Switzerland, 1/2025) [Xylol (alle Isomere)] **Xylene**

> BEI: 2 g/l, methyl hippuric acid [in urine]. Sampling time: immediately after exposure or after working hours.

Ethylbenzene

SUVA (Switzerland, 1/2025)

BEI: 600 mg/g creatinine, mandelic acid + phenylglyoxylic acid [in urine]. Sampling time: immediately after exposure or after working hours.

1-Methoxy 2-propanol

SUVA (Switzerland, 1/2025)

BEI: 20 mg/l, 1-methoxypropanol-2 [in urine]. Sampling time: immediately after exposure or after working hours.

BEI: 221.9 µmol/l, 1-methoxypropanol-2 [in urine]. Sampling time: immediately after exposure or after working hours.

Butan-1-ol

SUVA (Switzerland, 1/2025)

BEI: 2 mg/g creatinine, n-butanol [in urine]. Sampling time: before the next shift or 4pm.

Xylene

EH40/2005 BMGVs (United Kingdom (UK), 1/2020) [Xylene, o-, m-, p- or mixed isomers]

BGV: 650 mmol/mol creatinine, methyl hippuric acid [in urine]. Sampling time: post shift.

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

Result

Solvent naphtha (petroleum), light aromatic

DNEL - General population - Long term - Inhalation

0.41 mg/m³ Effects: Systemic

DNEL - Workers - Long term - Inhalation

1.9 mg/m³

Effects: Systemic

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DNEL - General population - Long term - Inhalation

178.57 mg/m³ Effects: Local

DNEL - General population - Short term - Inhalation

640 mg/m³ Effects: Local

DNEL - Workers - Long term - Inhalation

837.5 mg/m³ Effects: Local

DNEL - Workers - Short term - Inhalation

1066.67 mg/m³ Effects: Local

DNEL - General population - Short term - Inhalation

1152 mg/m³ Effects: Systemic

DNEL - Workers - Short term - Inhalation

1286.4 mg/m³ Effects: Systemic

DNEL - General population - Long term - Oral

5 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

65.3 mg/m³ Effects: Local

DNEL - General population - Long term - Inhalation

65.3 mg/m³ Effects: Systemic

DNEL - General population - Long term - Dermal

125 mg/kg bw/day Effects: Systemic

DNEL - Workers - Long term - Dermal

212 mg/kg bw/day Effects: Systemic

DNEL - Workers - Long term - Inhalation

221 mg/m³ Effects: Local

DNEL - Workers - Long term - Inhalation

221 mg/m³ Effects: Systemic

DNEL - General population - Short term - Inhalation

260 mg/m³ Effects: Local

DNEL - General population - Short term - Inhalation

260 mg/m³ Effects: Systemic

DNEL - Workers - Short term - Inhalation

442 mg/m³ Effects: Local

DNEL - Workers - Short term - Inhalation

Xylene

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442 mg/m³

Effects: Systemic

Ethylbenzene

1-Methoxy 2-propanol

DMEL - Workers - Long term - Inhalation

442 mg/m³ Effects: Local

DMEL - Workers - Short term - Inhalation

884 mg/m³

Effects: Systemic

DNEL - General population - Long term - Oral

1.6 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

15 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation

77 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Dermal

180 mg/kg bw/day Effects: Systemic

DNEL - Workers - Short term - Inhalation

293 mg/m³ Effects: Local

DNEL - General population - Long term - Oral

33 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

43.9 mg/m³
Effects: Systemic

DNEL - General population - Long term - Dermal

78 mg/kg bw/day Effects: Systemic

DNEL - Workers - Long term - Dermal

183 mg/kg bw/day Effects: Systemic

DNEL - Workers - Long term - Inhalation

369 mg/m³ Effects: Systemic

DNEL - Workers - Short term - Inhalation

553.5 mg/m³ Effects: Local

DNEL - Workers - Short term - Inhalation

553.5 mg/m³ Effects: Systemic

DNEL - General population - Long term - Inhalation

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55 mg/m³ Effects: Local

DNEL - Workers - Long term - Inhalation

310 mg/m³

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iso-butanol

Effects: Local

Butan-1-ol

DNEL - General population - Long term - Oral

1.5625 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Dermal

3.125 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

55.357 mg/m³ Effects: Systemic

DNEL - General population - Long term - Inhalation

155 mg/m³ Effects: Local

DNEL - Workers - Long term - Inhalation

310 mg/m³ Effects: Local

PNECs

Not 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.

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> 8 hours (breakthrough time): Viton® thickness > 0.3 mm gloves Wash hands before breaks and immediately after handling the product.

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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:

Filter type (spray application):

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

Appearance

Physical state : Liquid. : Black. Colour **Odour** Slight

Not available. **Odour threshold** Melting point/freezing point : Not available.

Initial boiling point and

boiling range

Lower: 0.8% (xylene)

Ingredient name	°C	°F	Method
iso-butanol	108	226.4	OECD 103
Butan-1-ol	119	246.2	OECD 103

: Not available. **Flammability**

Lower and upper explosion

Upper: 11.3% (butan-1-ol)

Flash point Closed cup: 24°C (75.2°F)

Auto-ignition temperature

Ingredient name	°C	°F	Method
1-Methoxy 2-propanol	270	518	
Solvent naphtha (petroleum), light aromatic	280 to 470	536 to 878	

: Not available. **Decomposition temperature** Not available. рH Not available. **Viscosity**

Solubility(ies)

Not available.

: Not available. Solubility in water Partition coefficient: n-octanol/ : Not applicable.

water

Vapour pressure

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	Vapour Pressure at 20°C			Va	oour pressu	re 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 : 1.5 g/cm³

Vapour density : Not available.

Particle characteristics

Median particle size : Not applicable.

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Explosive properties : Not available.

Oxidising properties : Not available.

9.2.2 Other safety characteristics

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

Solvent naphtha (petroleum), light aromatic Rat - Oral - LD50

8400 mg/kg

<u>Toxic effects</u>: Behavioral - Somnolence (general depressed activity) Behavioral - Tremor Lung, Thorax, or Respiration -

Other changes

Xylene Rat - Oral - LD50

4300 mg/kg

Toxic effects: Liver - Other changes Kidney, Ureter, and

Bladder - Other changes

Rat - Inhalation - LC50 Vapour

21.7 mg/l [4 hours]

Ethylbenzene Rat - Oral - LD50

3500 mg/kg

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Rabbit - Dermal - LD50

15400 mg/kg

Rat - Inhalation - LC50 Dusts and mists

29000 mg/l [4 hours]

1-Methoxy 2-propanol Rabbit - Dermal - LD50

13 g/kg

Rat - Oral - LD50

6600 mg/kg

<u>Toxic effects</u>: Brain and Coverings - Other degenerative changes Behavioral - General anesthetic Lung, Thorax, or

Respiration - Dyspnea

iso-butanol Rat - Oral - LD50

2460 mg/kg

Rabbit - Dermal - LD50

3400 mg/kg

Rat - Inhalation - LC50 Vapour

19200 mg/m³ [4 hours]

Butan-1-ol Rat - Oral - LD50

790 mg/kg

<u>Toxic effects</u>: Liver - Fatty liver degeneration Kidney, Ureter,

and Bladder - Other changes Blood - Other changes

Rabbit - Dermal - LD50

3400 mg/kg

Rat - Inhalation - LC50 Vapour

24000 mg/m³ [4 hours]

Conclusion/Summary [Product] : Not available.

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
TEKNOLAC PRIMER 2275-10L	79000.0	10644.0	N/A	81.6	N/A
Solvent naphtha (petroleum), light aromatic	8400	N/A	N/A	N/A	N/A
Xylene	4300	1100	N/A	11	N/A
Ethylbenzene	3500	15400	N/A	11	29000
1-Methoxy 2-propanol	6600	13000	N/A	N/A	N/A
iso-butanol	2460	3400	N/A	N/A	N/A
Butan-1-ol	790	3400	N/A	24	N/A

Skin corrosion/irritation

Product/ingredient name Result

Xylene Rat - Skin - Mild irritant

<u>Duration of treatment/exposure</u>: 8 hours <u>Amount/concentration applied</u>: 60 uL

Rabbit - Skin - Moderate irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 500 mg

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Rabbit - Skin - Moderate irritant Amount/concentration applied: 100 %

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Ethylbenzene Rabbit - Skin - Mild irritant

<u>Duration of treatment/exposure</u>: 24 hours Amount/concentration applied: 15 mg

1-Methoxy 2-propanol Rabbit - Skin - Mild irritant

Amount/concentration applied: 500 mg

Butan-1-ol Rabbit - Skin - Moderate irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 20 mg

Conclusion/Summary [Product]: Not available.

Serious eye damage/eye irritation

Product/ingredient name Result

Solvent naphtha (petroleum), light aromatic Rabbit - Eyes - Mild irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 100 uL

Xylene Rabbit - Eyes - Mild irritant

Amount/concentration applied: 87 mg

Rabbit - Eyes - Severe irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 5 mg

Ethylbenzene Rabbit - Eyes - Severe irritant

Amount/concentration applied: 500 mg

1-Methoxy 2-propanol Rabbit - Eyes - Mild irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 500 mg

Butan-1-ol Rabbit - Eyes - Severe irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 2 mg

Rabbit - Eyes - Severe irritant

Amount/concentration applied: 0.005 MI

Rabbit - Eyes - Severe irritant

Amount/concentration applied: 1.62 mg

Conclusion/Summary [Product] : Not available.

Respiratory corrosion/irritation

Not available.

Conclusion/Summary [Product]: Not available.

Respiratory or skin sensitization

Not available.

Skin

Conclusion/Summary [Product]: Not available.

Respiratory

Conclusion/Summary [Product] : Not available.

Germ cell mutagenicity

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Not available.

Conclusion/Summary [Product] : Not available.

Carcinogenicity

Not available.

Conclusion/Summary [Product] : Not available.

Reproductive toxicity

Not available.

Conclusion/Summary [Product]: Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name Result

Solvent naphtha (petroleum), light aromatic STOT SE 3, H335 (Respiratory tract irritation)

STOT SE 3, H336 (Narcotic effects)

Xylene STOT SE 3, H335 (Respiratory tract irritation)

1-Methoxy 2-propanol STOT SE 3, H336 (Narcotic effects)

iso-butanol STOT SE 3, H335 (Respiratory tract irritation)

STOT SE 3, H336 (Narcotic effects)

Butan-1-ol STOT SE 3, H335 (Respiratory tract irritation)

STOT SE 3, H336 (Narcotic effects)

Specific target organ toxicity (repeated exposure)

Product/ingredient name Result

Xylene STOT RE 2, H373 (oral, inhalation)

Ethylbenzene STOT RE 2, H373 (hearing organs) (oral, inhalation)

Aspiration hazard

Product/ingredient name Result

Solvent naphtha (petroleum), light aromatic

Xylene

ASPIRATION HAZARD - Category 1

ASPIRATION HAZARD - Category 1

ASPIRATION HAZARD - Category 1

Information on likely routes of exposure

Not available.

Potential acute health effects

Eye contact : Causes serious eye irritation.Inhalation : May cause respiratory irritation.

Skin contact : Causes skin irritation.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

Skin contact: Adverse symptoms may include the following:

irritation redness

Ingestion: No specific data.

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

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Short term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary [Product]: Not available.

General: May cause damage to organs through prolonged or repeated exposure.

Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Reproductive toxicity : No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

Conclusion/Summary [Product]: The product does not meet the criteria to be considered as having endocrine

disrupting properties according to the criteria set out in either Regulation (EC)

No. 1907/2006 or Regulation (EC) No 1272/2008.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name

Solvent naphtha (petroleum), light aromatic Acute - LC50

Fish

Result

9.2 mg/l [96 hours]

Acute - EC50 Daphnia

3.2 mg/l [48 hours]

iso-butanol Acute - LC50 - Fresh water

Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss

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Weight: 1.67 g

1330000 µg/l [96 hours]

Effect: Mortality

Acute - LC50 - Marine water

Crustaceans - Brine shrimp - Artemia salina

600 mg/l [48 hours] Effect: Mortality

Butan-1-ol Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas* Age: 33 days; <u>Size</u>: 20.6 mm; <u>Weight</u>: 0.119 g

1730000 µg/l [96 hours]

Effect: Mortality

Acute - EC50 - Fresh water

Daphnia - Water flea - Daphnia magna

Age: 6 to 24 hours 1983000 μg/l [48 hours] Effect: Intoxication

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Conclusion/Summary [Product] : Not available.

12.2 Persistence and degradability

Product/ingredient name

iso-butanol

Result

74% [28 days] - Readily

Conclusion/Summary [Product]: Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
iso-butanol	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Solvent naphtha (petroleum), light aromatic	-	10 to 2500	High
Xylene	3.12	8.1 to 25.9	Low
Ethylbenzene	3.6	-	Low
1-Methoxy 2-propanol	<1	-	Low
iso-butanol	1	-	Low
Butan-1-ol	1	-	Low

12.4 Mobility in soil

Soil/water partition coefficient

Product/ingredient name	logKoc	Koc
Ethylbenzene	2.2	170.406
1-Methoxy 2-propanol	1	10.447
iso-butanol	1.1	12.0246
Butan-1-ol	0.51	3.22078

Results of PMT and vPvM assessment

Product/ingredient name	PMT	P	M	T	vPvM	νP	νM
Solvent naphtha (petroleum), light aromatic	No	No	No	No	No	No	No
Xylene	No	No	No	No	No	No	No
Ethylbenzene	No	No	No	No	No	No	No
1-Methoxy 2-propanol	No	No	No	No	No	No	No
iso-butanol	No	No	No	No	No	No	No
Butan-1-ol	No	No	No	No	No	No	No

Mobility : Not available.

Conclusion/Summary : The product does not meet the criteria to be considered as a PMT or vPvM.

12.5 Results of PBT and vPvB assessment Regulation (EC) No. 1907/2006 [REACH]

Product/ingredient name	PBT	P	В	T	vPvB	vP	vB
Solvent naphtha (petroleum), light aromatic	No	N/A	No	No	No	N/A	No
Xylene	No	N/A	No	Yes	No	N/A	No
Ethylbenzene	N/A	N/A	N/A	Yes	N/A	N/A	N/A
1-Methoxy 2-propanol	No	N/A	N/A	No	N/A	N/A	N/A
iso-butanol	No	N/A	N/A	No	N/A	N/A	N/A
Butan-1-ol	No	N/A	N/A	No	N/A	N/A	N/A

Regulation (EC) No. 1272/2008 [CLP]

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Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB	
Solvent naphtha (petroleum), light aromatic	No	No	No	No	No	No	No	
Xylene	No	No	No	No	No	No	No	
Ethylbenzene	No	No	No	No	No	No	No	
1-Methoxy 2-propanol	No	No	No	No	No	No	No	
iso-butanol	No	No	No	No	No	No	No	
Butan-1-ol	No	No	No	No	No	No	No	

Conclusion/Summary Regulation (EC) No. 1272/2008 [CLP] : The product does not meet the criteria to be considered as a PBT or vPvB.

12.6 Endocrine disrupting properties

Not available.

Conclusion/Summary [Product]

: The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal

: Avoid release to the environment. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Dispose of contents and container in accordance with all local, regional, national and international regulations.

: The classification of the product may meet the criteria for a hazardous waste.

Hazardous waste

European waste catalogue (EWC)

: 08 01 11*

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

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SECTION 14: Transport information

14.4 Packing group	III	III	III	III
14.5 Environmental	No.	Yes.	No.	No.
hazards				

Additional information

ADR/RID : Tunnel code (D/E)

ADN The product is only regulated as an environmentally hazardous substance when

transported in tank vessels.

user

14.6 Special precautions for : 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.

SECTION 15: Regulatory information

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

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

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

Product/ingredient name	%	Designation [Usage]
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Labelling

Synthetic polymer microparticles - Designation 78

Generic identity of

polymer(s)

: 3909 - Amino-resins, phenolic resins and polyurethanes.

Total percentage of

synthetic polymer microparticles

The synthetic polymer microparticles supplied is subject to conditions laid down by entry 78 of Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council.

Other EU regulations

Industrial emissions

: Not listed

1.2%

(integrated pollution prevention and control) -

Air

Industrial emissions

: Not listed

(integrated pollution prevention and control) -

: Not applicable. **Explosive precursors** Ozone depleting substances (EU 2024/590)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

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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 : Category 3
Limitation of the use of organic solvents : Permitted.

Belgium

Book VI carcinogenic agents annex VI.2-1 - VI.2-3

Ingredient name	Status
Noirs de charbon	Listed
Silice	Listed
Cobalt et ses composés	Listed
Silice	Listed

Czech Republic

Storage code : II

Denmark

Fire class : II-1 Executive Order No. 1795/2015

Ingredient name	Annex I Section A	Annex I Section B
Ethylbenzene	Listed	-
carbon black respirable	Listed	-

MAL-code : 4-3

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: 4-3

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

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

When using scraper or knife, brush, roller, etc, for pre- and post-treatments in cabins or booths of the existing* facility type, if the operator is inside the spray zone.

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

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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 non-atomising spraying in existing* facilities of the combined-cabin, spraycabin and spray-booth type where the operator is working inside the spray zone.

- Air-supplied full mask must be worn.

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

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

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

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

: Not listed

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, Articles L 461-1 to L 461-7 : Solvent naphtha (petroleum), light aromatic RG 84

Xylene RG 4bis, RG 84
Ethylbenzene RG 84

1-Methoxy 2-propanol RG 84 iso-butanol RG 84 Butan-1-ol RG 84

Reinforced medical surveillance

: Act of July 11, 1977 determining the list of activities which require reinforced medical surveillance: not applicable

Germany

TRGS 905

Ingredient name	Carcinogen	Mutagen	Reproductive toxicity - Fertility	Reproductive toxicity - Development
				Development

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Cobalt-Verbindungen (in	K2	M1A	RF1A	RD1A	
Form atembarer Stäube/					
Aerosole), ausge-nommen					
die in dieser Liste bzw. in					
Anhang VI Teil 3 der CLP-					
Verordnung namentlich					
aufgeführten					
Cobaltverbindungen, Cobalt-					
haltigen Spinellen und					
organischen Cobalt-					
Sikkativen					

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 [Class]	Description	%
5.2.1	Total dust	66
5.2.5	Organic substances	33.8
5.2.5 [I]	Organic substances	19.4
5.2.7.1.1 [I]	Carcinogenic substances	0.05

AOX

: The product contains organically bound halogens and can contribute to the 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	Mutagen	Reproductive toxicity - Fertility	Reproductive toxicity - Development	Harmful via breastfeeding
Solvent naphtha (petroleum), light arom.	Listed	Listed	-	-	-
xyleen	_	_	_	Development 2	_
Naphtha (petroleum), hydrotreated heavy	Listed	Listed	-	-	-
silica kristallijn; respirabel stof	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

Norway Sweden

Flammable liquid class : 2a

(SRVFS 2005:10)

Switzerland

VOC content : VOC (w/w): 32.4%

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

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Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

15.2 Chemical safety

assessment

acronyms

: 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

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

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 Eye Irrit. 2, H319	Calculation method Calculation method
STOT SE 3, H335	Calculation method
STOT RE 2, H373 Aquatic Chronic 3, H412	Calculation method 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.
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.
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]

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SECTION 16: Other information

Acute Tox. 4 **ACUTE TOXICITY - Category 4** LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 Aquatic Chronic 2 Aquatic Chronic 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 Asp. Tox. 1 ASPIRATION HAZARD - Category 1 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 STOT RE 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

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