SAFETY DATA SHEET



TEKNODUR 100 9-00 - All variants

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

1.1 Product identifier

Product name : TEKNODUR 100 9-00 - All variants

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 : Prod-safe@teknos.com

responsible for this SDS

National contact

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

1.4 Emergency telephone number

National advisory body/Poison Centre

: 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 Skin Sens. 1, H317 **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

Hazard statements : H226 - Flammable liquid and vapour.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. 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

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SECTION 2: Hazards identification

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.

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

: Contains: Xylene; Solvent naphtha (petroleum), light aromatic; EO bis(benztriazolyl)

phenylpropionat and 4-morpholinecarbaldehyde

Supplemental label

elements

: Warning! Hazardous respirable droplets may be formed when sprayed. Do not

breathe spray or mist.

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

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification

: None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
itanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≥10 - ≤25	Carc. 2, H351 (inhalation)	-	[1] [*]
Xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥10 - ≤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	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
2-Methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7	≤7.9	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
Solvent naphtha (petroleum), light aromatic	REACH #: 01-2119455851-35 EC: 265-199-0 CAS: 64742-95-6 Index: 649-356-00-4	≤7	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	-	[1]

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n-Butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≤5	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1] [2
Ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤5	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) (oral, inhalation) Asp. Tox. 1, H304	ATE [Inhalation (vapours)] = 11 mg/	[1] [2
EO bis(benztriazolyl) phenylpropionat	REACH #: 01-0000015075-76 EC: 400-830-7 CAS: 104810-48-2 Index: 607-176-00-3	<1	Skin Sens. 1A, H317 Aquatic Chronic 2, H411	-	[1]
4-morpholinecarbaldehyde	REACH #: 01-2119987993-12 EC: 224-518-3 CAS: 4394-85-8	<1	Skin Sens. 1, H317	-	[1]
12-hydroxy-N-[6- (12-hydroxyoctadecanamido) hexyl]octadecanamide	REACH #: 01-0000018057-71 EC: 434-430-9 CAS: 55349-01-4	<1	Skin Sens. 1, H317 Aquatic Chronic 4, H413	-	[1]
Reaction mass of Bis (1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	REACH #: 01-2119491304-40 EC: 915-687-0 CAS: 1065336-91-5	≤0.89	Skin Sens. 1A, H317 Repr. 2, H361f Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
Quaternary ammonium compounds, C12-14 (evennumbered) - alkylethyldimethyl, ethyl sulphates	REACH #: 01-2119977130-42 EC: 269-662-8	<0.1	Acute Tox. 4, H302 Acute Tox. 3, H311 Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 See Section 16 for the full text of the H	ATE [Oral] = 500 mg/kg ATE [Dermal] = 528 mg/kg M [Acute] = 10 M [Chronic] = 1	[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.

statements declared

above.

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [*] The classification as a carcinogen by inhalation applies only to mixtures placed on the market in powder form containing 1% or more of titanium dioxide particles with aerodynamic diameter ≤ 10 µm not bound within a matrix.

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

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SECTION 4: First aid measures

4.1 Description of first aid measures

Eve contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower evelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention 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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

: Adverse symptoms may include the following: **Skin contact**

> 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 : Do not use water jet.

media

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SECTION 5: Firefighting measures

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

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

metal oxide/oxides

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Small spill

stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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 spilt 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.

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SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

Protective measures

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

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. 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. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

Danger criteria

	Notification and MAPP threshold	Safety report threshold
₱ 5c	5000 tonnes	50000 tonnes

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
Kylene	Regulation on Limit Values - MAC (Austria, 4/2021) [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.
2-Methoxy-1-methylethyl acetate	Regulation on Limit Values - MAC (Austria, 4/2021) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m³. CEIL 5 minutes: 100 ppm 8 times per shift.

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CEIL 5 minutes: 550 mg/m³ 8 times per shift. Regulation on Limit Values - MAC (Austria, 4/2021) n-Butyl acetate

[Butylacetat alle Isomeren außer tert-Butylacet]

CEIL: 480 mg/m³. CEIL: 100 ppm.

TWA 8 hours: 241 mg/m³. TWA 8 hours: 50 ppm.

Ethylbenzene

Regulation on Limit Values - MAC (Austria, 4/2021) Absorbed

through skin.

TWA 8 hours: 100 ppm. TWA 8 hours: 440 ma/m³.

CEIL 5 minutes: 200 ppm 8 times per shift. CEIL 5 minutes: 880 mg/m³ 8 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.

2-Methoxy-1-methylethyl acetate

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

TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m³.

n-Butyl acetate

Limit values (Belgium, 12/2023) [butylacetaat]

STEL 15 minutes: 712 mg/m³. STEL 15 minutes: 150 ppm. TWA 8 hours: 238 mg/m³. TWA 8 hours: 50 ppm.

Ethylbenzene

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

TWA 8 hours: 20 ppm. TWA 8 hours: 87 ma/m³. STEL 15 minutes: 125 ppm. STEL 15 minutes: 551 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.

2-Methoxy-1-methylethyl acetate

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: 275 mg/m³. Limit value 15 minutes: 550 mg/m³. Limit value 15 minutes: 100 ppm. Limit value 8 hours: 50 ppm.

n-Butyl acetate

Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024)

Limit value 8 hours: 241 mg/m³. Limit value 15 minutes: 723 mg/m³. Limit value 15 minutes: 150 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.

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Xvlene 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. Ordinance on the protection of workers from exposure to 2-Methoxy-1-methylethyl acetate hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) Absorbed through skin. STELV 15 minutes: 550 mg/m3. STELV 15 minutes: 100 ppm. ELV 8 hours: 275 mg/m³. ELV 8 hours: 50 ppm. Ordinance on the protection of workers from exposure to Solvent naphtha (petroleum), light aromatic hazardous chemicals at work, exposure limit values (Annex I) (Croatia) ELV: 100 ppm. ELV: 400 mg/m³. n-Butyl acetate Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) STELV 15 minutes: 723 mg/m³. STELV 15 minutes: 150 ppm. ELV 8 hours: 241 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. 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. Department of labour inspection (Cyprus, 7/2021) Absorbed 2-Methoxy-1-methylethyl acetate through skin. STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m³.

n-Butyl acetate

Ethylbenzene

TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m³.

Department of labour inspection (Cyprus, 7/2021)

STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m³. TWA 8 hours: 50 ppm. TWA 8 hours: 241 mg/m³.

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.

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SECTION 8: Exposure controls/personal protection Vylene 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. Government regulation of Czech Republic PEL/NPK-P (Czech 2-Methoxy-1-methylethyl acetate Republic, 12/2023) Absorbed through skin. TWA 8 hours: 275 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 550 mg/m³. STEL 15 minutes: 100 ppm. Government regulation of Czech Republic PEL/NPK-P (Czech Solvent naphtha (petroleum), light aromatic Republic, 12/2023) [nafta solventní] TWA 8 hours: 200 mg/m³. STEL 15 minutes: 1000 mg/m³. Government regulation of Czech Republic PEL/NPK-P (Czech n-Butyl acetate Republic, 12/2023) TWA 8 hours: 241 mg/m³. STEL 15 minutes: 723 mg/m³. STEL 15 minutes: 150 ppm. TWA 8 hours: 50 ppm. Government regulation of Czech Republic PEL/NPK-P (Czech Ethylbenzene 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. **X**ylene Working Environment Authority (Denmark, 3/2024) [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. Working Environment Authority (Denmark, 3/2024) [2-methoxy-2-Methoxy-1-methylethyl acetate 1-methylethylacetat] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m³. STEL 15 minutes: 550 mg/m³. STEL 15 minutes: 100 ppm. Working Environment Authority (Denmark, 3/2024) n-Butyl acetate [butylacetat, alle isomerer] TWA 8 hours: 50 ppm. TWA 8 hours: 241 mg/m³. STEL 15 minutes: 723 mg/m³. STEL 15 minutes: 150 ppm. Ethylbenzene Working Environment Authority (Denmark, 3/2024) K. 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. **X**ylene Occupational exposure limits, Regulation No. 293 (Estonia, 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.

2-Methoxy-1-methylethyl acetate Occupational exposure limits, Regulation No. 293 (Estonia,

4/2024) Absorbed through skin, Sensitiser.

STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m3.

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TWA 8 hours: 275 mg/m³. TWA 8 hours: 50 ppm. Occupational exposure limits, Regulation No. 293 (Estonia, n-Butyl acetate 4/2024) STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m³. TWA 8 hours: 50 ppm. TWA 8 hours: 241 mg/m³. Ethylbenzene Occupational exposure limits, Regulation No. 293 (Estonia, 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. 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. 2-Methoxy-1-methylethyl acetate TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m³. n-Butyl acetate EU OEL (Europe, 1/2022) STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m³. TWA 8 hours: 241 mg/m³. TWA 8 hours: 50 ppm. 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. **X**ylene 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. 2-Methoxy-1-methylethyl acetate Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 270 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m³. Solvent naphtha (petroleum), light aromatic Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2020) TWA 8 hours: 100 mg/m³. n-Butyl acetate Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) TWA 8 hours: 150 ppm. TWA 8 hours: 720 mg/m³. STEL 15 minutes: 200 ppm. STEL 15 minutes: 960 mg/m³. Institute of Occupational Health, Ministry of Social Affairs Ethylbenzene (Finland, 10/2021) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 220 mg/m³.

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STEL 15 minutes: 200 ppm. STEL 15 minutes: 880 mg/m³.

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) Ministry of Labor (France, 6/2024) Absorbed through skin. 2-Methoxy-1-methylethyl acetate STEL 15 minutes: 550 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: 275 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) Ministry of Labor (France, 6/2024) [hydrocarbures en C6-C12] Solvent naphtha (petroleum), light aromatic 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) n-Butyl acetate Ministry of Labor (France, 6/2024) TWA 8 hours: 50 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA 8 hours: 241 mg/m³. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 150 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 723 mg/m³. 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) 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, 7/2023) [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) 2-Methoxy-1-methylethyl acetate TWA 8 hours: 270 ma/m³. PEAK 15 minutes: 270 mg/m³. TWA 8 hours: 50 ppm. PEAK 15 minutes: 50 ppm. DFG MAC-values list (Germany, 7/2023) Develop C.

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TWA 8 hours: 50 ppm.

TWA 8 hours: 270 mg/m³.

PEAK 15 minutes: 50 ppm 4 times per shift [Interval: 1 hour].

PEAK 15 minutes: 270 mg/m³ 4 times per shift [Interval: 1 hour].

n-Butyl acetate TRGS 900 OEL (Germany, 6/2024) TWA 8 hours: 300 mg/m³. TWA 8 hours: 62 ppm. PEAK 15 minutes: 600 mg/m³. PEAK 15 minutes: 124 ppm. DFG MAC-values list (Germany, 7/2023) Develop C. TWA 8 hours: 100 ppm. PEAK 15 minutes: 200 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 480 mg/m³. PEAK 15 minutes: 960 mg/m³ 4 times per shift [Interval: 1 hour]. Ethylbenzene TRGS 900 OEL (Germany, 6/2024) Absorbed through skin. 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, 7/2023) 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. **X**ylene Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) [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. 2-Methoxy-1-methylethyl acetate Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m³. n-Butyl acetate Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) TWA 8 hours: 50 ppm. TWA 8 hours: 241 mg/m³. STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m³. Presidential Decree 307/1986: Occupational exposure limit Ethylbenzene values (Greece, 9/2021) TWA 8 hours: 100 ppm. TWA 8 hours: 435 mg/m³. STEL 15 minutes: 125 ppm. STEL 15 minutes: 545 mg/m³. Xylene 5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) [xilol izomerek 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. 5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) 2-Methoxy-1-methylethyl acetate TWA 8 hours: 275 mg/m³. PEAK 15 minutes: 550 mg/m³. PEAK 15 minutes: 100 ppm. TWA 8 hours: 50 ppm. n-Butyl acetate 5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) Sensitiser. TWA 8 hours: 241 mg/m³. PEAK 15 minutes: 723 mg/m³. PEAK 15 minutes: 150 ppm.

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TWA 8 hours: 50 ppm. 5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) Absorbed through Ethylbenzene TWA 8 hours: 442 mg/m³. PEAK 15 minutes: 884 mg/m³. PEAK 15 minutes: 200 ppm. TWA 8 hours: 100 ppm. Xylene Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023) [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. 2-Methoxy-1-methylethyl acetate Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023) Absorbed through skin. STEL 15 minutes: 550 mg/m³. STEL 15 minutes: 100 ppm. TWA 8 hours: 275 mg/m³. TWA 8 hours: 50 ppm. Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023) n-Butyl acetate [bútýlasetat, allir ísómerar] TWA 8 hours: 241 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 723 mg/m³. STEL 15 minutes: 150 ppm. Ethylbenzene Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023) 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. 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. 2-Methoxy-1-methylethyl acetate NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 50 ppm. OELV 8 hours: 275 mg/m³. OELV 15 minutes: 100 ppm. OELV 15 minutes: 550 mg/m³. NAOSH (Ireland, 4/2024) Notes: EU derived Occupational n-Butyl acetate Exposure Limit Values OELV 8 hours: 50 ppm. OELV 8 hours: 241 mg/m3. OELV 15 minutes: 150 ppm. OELV 15 minutes: 723 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.

Xylene

Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020) [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.

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2-Methoxy-1-methylethyl acetate Legislative Decree No. 81/2008. Title IX. Protection from

chemical agents, carcinogens and mutagens (Italy, 6/2020)

Absorbed through skin.

Limit value 8 hours: 50 ppm.

Limit value 8 hours: 275 mg/m³.

Short Term 15 minutes: 100 ppm.

Short Term 15 minutes: 550 mg/m³.

n-Butyl acetate EU OEL (Europe, 1/2022)

STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m³. TWA 8 hours: 241 mg/m³. TWA 8 hours: 50 ppm.

Ethylbenzene Legislative Decree No. 81/2008. Title IX. Protection from

chemical agents, carcinogens and mutagens (Italy, 6/2020)

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.

Wylene 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.

2-Methoxy-1-methylethyl acetate Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)

Absorbed through skin.
TWA 8 hours: 50 ppm.
TWA 8 hours: 275 mg/m³.
STEL 15 minutes: 100 ppm.
STEL 15 minutes: 550 mg/m³.

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

TWA 8 hours: 241 mg/m³. STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m³. TWA 8 hours: 50 ppm.

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.

Kylene 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.

2-Methoxy-1-methylethyl acetate | Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)

Absorbed through skin.
TWA 8 hours: 250 mg/m³.
TWA 8 hours: 50 ppm.
STEL 15 minutes: 400 mg/m³.
STEL 15 minutes: 75 ppm.

n-Butyl acetate Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)

TWA 8 hours: 241 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 723 mg/m³. STEL 15 minutes: 150 ppm.

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

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

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TWA 8 hours: 100 ppm. STEL 15 minutes: 884 mg/m³. STEL 15 minutes: 200 ppm. 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. 2-Methoxy-1-methylethyl acetate Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m³. n-Butyl acetate Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m³. TWA 8 hours: 50 ppm. TWA 8 hours: 241 mg/m³. Ethylbenzene Grand-Duchy Regulation 2016. Chemical agents. Annex I (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. **X**ylene 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. 2-Methoxy-1-methylethyl acetate EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m³. n-Butyl acetate EU OEL (Europe, 1/2022) STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m³. TWA 8 hours: 241 mg/m³. TWA 8 hours: 50 ppm. 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. Xylene Ministry of Social Affairs and Employment, Legal limit values (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. 2-Methoxy-1-methylethyl acetate Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) TWA 8 hours: 550 mg/m³. TWA 8 hours: 100 ppm. Ministry of Social Affairs and Employment, Legal limit values n-Butyl acetate (Netherlands, 5/2024)

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TWA 8 hours: 241 mg/m³. STEL 15 minutes: 723 mg/m³. STEL 15 minutes: 150 ppm. TWA 8 hours: 50 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.

Xylene

FOR-2011-12-06-1358 (Norway, 12/2022) [xylen] Absorbed

through skin.

TWA 8 hours: 25 ppm. TWA 8 hours: 108 mg/m³.

2-Methoxy-1-methylethyl acetate

FOR-2011-12-06-1358 (Norway, 12/2022) Absorbed through skin.

TWA 8 hours: 50 ppm. TWA 8 hours: 270 mg/m³.

n-Butyl acetate

FOR-2011-12-06-1358 (Norway, 12/2022)

STEL 15 minutes: 723 mg/m³. STEL 15 minutes: 150 ppm. TWA 8 hours: 241 mg/m³. TWA 8 hours: 50 ppm.

Ethylbenzene

FOR-2011-12-06-1358 (Norway, 12/2022) Carc. Absorbed through

skin.

TWA 8 hours: 5 ppm. TWA 8 hours: 20 mg/m³.

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, 8/2023) [xylene – mixed isomers (1,2-, 1,3-, 1,4-)] Absorbed through skin.

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

2-Methoxy-1-methylethyl acetate

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, 8/2023) Absorbed through skin.

TWA 8 hours: 260 mg/m³. STEL 15 minutes: 520 mg/m³.

n-Butyl acetate

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, 8/2023)

TWA 8 hours: 240 mg/m³. STEL 15 minutes: 720 mg/m³.

Ethylbenzene

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, 8/2023) Absorbed through skin.

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

Xylene

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

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

2-Methoxy-1-methylethyl acetate

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

TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m³.

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Xylene

STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m³.

n-Butyl acetate Portuguese Institute of Quality (Portugal, 11/2014)

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

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

TWA 8 hours: 20 ppm.

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.

2-Methoxy-1-methylethyl acetate HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) Absorbed through skin.

VLA 8 hours: 275 mg/m³. VLA 8 hours: 50 ppm.

Short term 15 minutes: 550 mg/m³. Short term 15 minutes: 100 ppm.

Solvent naphtha (petroleum), light aromatic

HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) [Solvent nafta] Absorbed through

skin.

VLA 8 hours: 100 mg/m³.

Short term 15 minutes: 200 mg/m³.

n-Butyl acetate HG 1218/2006, Annex 1, with subsequent modifications and

additions (Romania, 3/2024)

VLA 8 hours: 241 mg/m³. VLA 8 hours: 50 ppm.

Short term 15 minutes: 723 mg/m³. Short term 15 minutes: 150 ppm.

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

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.

Kylene **Government regulation SR c. 355/2006 (Slovakia, 7/2024)**

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

2-Methoxy-1-methylethyl acetate | Government regulation SR c. 355/2006 (Slovakia, 7/2024)

Absorbed through skin, Inhalation sensitiser.

TWA 8 hours: 275 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 550 mg/m³. STEL 15 minutes: 100 ppm.

n-Butyl acetate Government regulation SR c. 355/2006 (Slovakia, 7/2024)

[butylacetáty] Inhalation sensitiser.

TWA 8 hours: 241 mg/m³ (Butyl acetates). TWA 8 hours: 50 ppm (Butyl acetates). STEL 15 minutes: 723 mg/m³ (Butyl acetates). STEL 15 minutes: 150 ppm (Butyl acetates).

Ethylbenzene Government regulation SR c. 355/2006 (Slovakia, 7/2024)

Absorbed through skin, Inhalation sensitiser.

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

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SECTION 8: Exposure controls/personal protection **X**vlene 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 2-Methoxy-1-methylethyl acetate exposure to chemical substances at work (Slovenia, 4/2024) Absorbed through skin. TWA 8 hours: 275 mg/m³. TWA 8 hours: 50 ppm. KTV 15 minutes: 550 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 n-Butyl acetate exposure to chemical substances at work (Slovenia, 4/2024) TWA 8 hours: 241 mg/m³. TWA 8 hours: 50 ppm. KTV 15 minutes: 723 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]. Ethylbenzene 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]. Xylene TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m³. 2-Methoxy-1-methylethyl acetate

National institute of occupational safety and health (Spain, 1/2024) [xileno, mezcla isómeros] Absorbed through skin.

National institute of occupational safety and health (Spain, 1/2024) Absorbed through skin.

TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m³.

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

TWA 8 hours: 50 ppm. TWA 8 hours: 241 mg/m³. STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m³.

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.

n-Butyl acetate

Ethylbenzene

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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. Work environment authority Regulation 2018:1 (Sweden, 2-Methoxy-1-methylethyl acetate 11/2022) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m³. n-Butyl acetate Work environment authority Regulation 2018:1 (Sweden, 11/2022) [butyl acetate] TWA 8 hours: 50 ppm. TWA 8 hours: 241 mg/m³. STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m³. Work environment authority Regulation 2018:1 (Sweden, Ethylbenzene 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. Xylene SUVA (Switzerland, 1/2024) [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. 2-Methoxy-1-methylethyl acetate SUVA (Switzerland, 1/2024) TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 275 mg/m³. SUVA (Switzerland, 1/2024) n-Butyl acetate TWA 8 hours: 50 ppm. TWA 8 hours: 240 mg/m³. STEL 15 minutes: 150 ppm. STEL 15 minutes: 720 mg/m³. SUVA (Switzerland, 1/2024) 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. 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 2-Methoxy-1-methylethyl acetate through skin. STEL 15 minutes: 548 mg/m³. TWA 8 hours: 50 ppm. TWA 8 hours: 274 mg/m³. STEL 15 minutes: 100 ppm. EH40/2005 WELs (United Kingdom (UK), 1/2020) n-Butyl acetate STEL 15 minutes: 966 mg/m³. STEL 15 minutes: 200 ppm. TWA 8 hours: 724 mg/m³. TWA 8 hours: 150 ppm. Ethylbenzene EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed

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through skin. STEL 15 minutes: 552 mg/m³. STEL 15 minutes: 125 ppm. TWA 8 hours: 100 ppm. TWA 8 hours: 441 mg/m³. naphthalene **EU OEL (Europe, 1/2022)** TWA 8 hours: 10 ppm. TWA 8 hours: 50 mg/m³.

Riological exposure indices

Product/ingredient name	Evnosure indices
	Exposure indices
⋉ ylene	VGU BEI (Austria, 9/2020) [xylenes] BEI Fitness: 1000 μg/l, xylene [in blood]. Sampling time: one year. BEI Fitness: 1.5 g/l, methylhippuricacid [in urine]. Sampling time: one year.
No exposure indices known.	
E thylbenzene	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.
∭ylene	Ordinance on the protection of workers from exposure to hazardous chemicals at work, biological limit values (Annex IV) (Croatia, 12/2023) [xylene] BEI: 1.5 mg/l, xylene [in blood]. Sampling time: at the end of the work shift. BEI: 14.13 µmol/l, xylene [in blood]. Sampling time: at the end of the work shift. BEI: 0.88 mol/mol creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift. BEI: 1.5 g/g creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift.
Ethylbenzene	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.	
▼ylene	Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015) [Xylene] Biological limit values: 820 µmol/mmol creatinine, methylhippuric acid [in urine]. Sampling time: end of the shift. Biological limit values: 1400 mg/g creatinine, methylhippuric acid [in urine]. Sampling time: end of the shift.
Ethylbenzene	Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015) Biological limit values: 1100 µmol/mmol creatinine, almond acid [in urine]. Sampling time: end of the shift. Biological limit values: 1500 mg/g creatinine, almond acid [in urine]. Sampling time: end of the shift.
No exposure indices known.	

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No exposure indices known.

No exposure indices known.



Ethylbenzene

No exposure indices known.



Ethylbenzene

No exposure indices known.

Xylene

Ethylbenzene

No exposure indices known.



Ethylbenzene

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

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

Institute of Occupational Health, Ministry of Social Affairs (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.

DFG BEI-values list (Germany, 7/2023) [Xylene (all isomers)]

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

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

TRGS 903 - BEI Values (Germany, 2/2024) [Xylene (all isomers)]

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

DFG BEI-values list (Germany, 7/2023) Notes: danger from percutaneous absorption (see p. 211 and p. 228).

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

TRGS 903 - BEI Values (Germany, 2/2024)

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

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

BEI: 1500 mg/g creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the shift.

BEI: 860 µmol/mmol creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the shift.

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.

NAOSH (Ireland, 1/2011) [Xylene]

BMGV: 1.5 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.

NAOSH (Ireland, 1/2011)

BMGV: Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative interpretation of the measurement is ambiguous. These analytes should be used as a screening test if a quantitative test is not practical; or as a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question., ethylbenzene [in endexhaled air]. Sampling time: not critical.

BMGV: 0.7 g/g creatinine [Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative interpretation of the measurement is ambiguous. These analytes should be used as a screening test if a quantitative test is not practical; or as a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question.],

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No exposure indices known.

Xylene

No exposure indices known.

Xylene

Ethylbenzene

Xylene

Ethylbenzene

Xylene

Ethylbenzene

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) [xylenes (all isomers)]

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) [Xylenes]

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) [Xylene]

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

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.

Government regulation SR c. 355/2006 (Slovakia, 5/2024) [xylene, all isomers]

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.

Government regulation SR c. 355/2006 (Slovakia, 5/2024)

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

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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.

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

BAT: 2 g/l, methylhippuric acid (all isomers) [in urine]. Sampling time: at the end of the work shift.

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.

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

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

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.

SUVA (Switzerland, 1/2024) [Xylene, all isomers]

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

SUVA (Switzerland, 1/2024)

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

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.

EH40/2005 BMGVs (United Kingdom (UK), 1/2020) [Polycyclic aromatic hydrocarbons1

BGV: 4 µmol/mol creatinine, 1-hydroxypyrene [in urine]. Sampling time: post shift.

Recommended monitoring procedures

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

Xylene

Xylene

Xylene

Xylene

naphthalene

Ethylbenzene

Ethylbenzene

Ethylbenzene

No exposure indices known.

Product/ingredient name Result

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titanium dioxide

DNEL - General population - Long term - Inhalation

28 μg/m³ Effects: Local

DNEL - Workers - Long term - Inhalation

170 µg/m³ Effects: Local

Xylene 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

442 mg/m³
Effects: Systemic

DNEL - General population - Long term - Inhalation

33 mg/m³ Effects: Local

DNEL - General population - Long term - Inhalation

33 mg/m³

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Effects: Systemic

DNEL - General population - Long term - Oral

36 mg/kg bw/day Effects: Systemic

DNEL - Workers - Long term - Inhalation

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DNEL - Workers - Long term - Illiana

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2-Methoxy-1-methylethyl acetate

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Effects: Systemic

DNEL - General population - Long term - Dermal

320 mg/kg bw/day Effects: Systemic

DNEL - Workers - Short term - Inhalation

550 mg/m³ Effects: Local

DNEL - Workers - Long term - Dermal

796 mg/kg bw/day Effects: Systemic

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

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

2 mg/kg bw/day Effects: Systemic

DNEL - General population - Short term - Oral

2 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Dermal

3.4 mg/kg bw/day Effects: Systemic

DNEL - General population - Short term - Dermal

6 mg/kg bw/day Effects: Systemic

DNEL - Workers - Long term - Dermal

7 mg/kg bw/day Effects: Systemic

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n-Butyl acetate

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DNEL - Workers - Short term - Dermal

11 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

12 mg/m³

Effects: Systemic

DNEL - General population - Long term - Inhalation

35.7 mg/m³ Effects: Local

DNEL - Workers - Long term - Inhalation

48 mg/m³

Effects: Systemic

DNEL - General population - Short term - Inhalation

300 mg/m³ Effects: Local

DNEL - General population - Short term - Inhalation

300 mg/m³ Effects: Systemic

DNEL - Workers - Long term - Inhalation

300 mg/m³ Effects: Local

DNEL - Workers - Short term - Inhalation

600 mg/m³ Effects: Local

DNEL - Workers - Short term - Inhalation

600 mg/m³
<u>Effects</u>: Systemic

DMEL - Workers - Long term - Inhalation

442 mg/m³ Effects: Local

DMEL - Workers - Short term - Inhalation

884 mg/m³
<u>Effects</u>: 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

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Ethylbenzene

4-morpholinecarbaldehyde

DNEL - General population - Long term - Oral

4.17 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Dermal

4.17 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

8.93 mg/m³ Effects: Systemic

DNEL - Workers - Long term - Dermal

11.7 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

13.3 mg/m³ Effects: Local

DNEL - Workers - Long term - Inhalation

13.3 mg/m³ Effects: Local

DNEL - Workers - Long term - Inhalation

50.3 mg/m³ Effects: Systemic

Reaction mass of Bis(1,2,2,6,6-pentamethyl- DNEL - General population - Long term - Oral

0.18 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

0.31 mg/m³ Effects: Systemic

DNEL - General population - Long term - Dermal

0.9 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - Workers - Long term - Inhalation

1.27 mg/m³ Effects: Systemic

DNEL - Workers - Long term - Dermal

1.8 mg/kg bw/day Effects: Systemic

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

4-piperidyl) sebacate and Methyl

1,2,2,6,6-pentamethyl-4-piperidyl sebacate

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Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Recommendations: Wear suitable gloves tested to EN374.

< 1 hour (breakthrough time): Nitrile gloves. thickness > 0.3 mm

1 - 4 hours (breakthrough time): polyvinyl alcohol (PVA) thickness > 0.3 mm or

4H / Silver Shield® gloves.

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

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Filter type: A

Filter type (spray application): A P

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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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.Colour: VariousOdour: Slight

Odour threshold : Not available.

Melting point/freezing point : Not available.

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SECTION 9: Physical and chemical properties

Initial boiling point and

boiling range

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

Flammability : Not available.

: Lower: 0.8% (xylene) Lower and upper explosion

Upper: 7.6% (Solvent naphtha (petroleum), light arom.) limit

: Closed cup: 25°C (77°F) Flash point

Auto-ignition temperature

Ingredient name	°C	°F	Method
Solvent naphtha (petroleum), light aromatic	280 to 470	536 to 878	
2-Methoxy-1-methylethyl acetate	333	631.4	DIN 51794

: Not available. **Decomposition temperature** pН : Not available.

Kinematic (40°C): >20.5 mm²/s **Viscosity**

Solubility(ies)

Not available.

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

water

Vapour pressure

	Vapour Pressure at 20°C			Vaj	oour pressui	re at 50°C
Ingredient name	mm Hg kPa N		Method	mm Hg	kPa	Method
p-Butyl acetate	11.25096	1.5	DIN EN 13016-2			
Ethylbenzene	9.30076	1.2				

Relative density : Not available. : 1.2 g/cm³ **Density** 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. : Not available. **Oxidising properties**

9.2.2 Other safety characteristics

Not applicable.

SECTION 10: Stability and reactivity

: No specific test data related to reactivity available for this product or its ingredients. 10.1 Reactivity

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.

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SECTION 10: Stability and reactivity

10.5 Incompatible materials

Reactive or incompatible with the following materials:

Result

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

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]

2-Methoxy-1-methylethyl acetate Rat - Oral - LD50

8532 mg/kg

Rabbit - Dermal - LD50

>5 g/kg

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

8400 mg/kg

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

Other changes

n-Butyl acetate Rat - Oral - LD50

10760 mg/kg

Rabbit - Dermal - LD50

14112 mg/kg

Rat - Inhalation - LC50 Vapour

0.74 mg/l [4 hours]

Ethylbenzene Rat - Oral - LD50

3500 mg/kg

Rabbit - Dermal - LD50

15400 mg/kg

Rat - Inhalation - LC50 Dusts and mists

29000 mg/l [4 hours]

Reaction mass of Bis(1,2,2,6,6-pentamethyl-

4-piperidyl) sebacate and Methyl

1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Rat - Oral - LD50

3230 mg/kg

Rat - Dermal - LD50

>3170 mg/kg

Quaternary ammonium compounds, C12-14 (evennumbered) -alkylethyldimethyl, ethyl

sulphates

Rabbit - Dermal - LD50

528 mg/kg

Conclusion/Summary [Product] : Not available.

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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)
FÉKNODUR 100 9-00 Xylene	N/A 4300	7776.6 1100	N/A N/A	63.8 11	N/A N/A
2-Methoxy-1-methylethyl acetate	8532	N/A	N/A	N/A	N/A
Solvent naphtha (petroleum), light aromatic	8400	N/A	N/A	N/A	N/A
n-Butyl acetate Ethylbenzene	10760 3500	14112 15400	N/A N/A	N/A 11	N/A 29000
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	3230	N/A	N/A	N/A	N/A
Quaternary ammonium compounds, C12-14 (evennumbered) -alkylethyldimethyl, ethyl sulphates	500	528	N/A	N/A	N/A

Skin corrosion/irritation

Product/ingredient name Result

titanium dioxide Human - Skin - Mild irritant

> **Duration of treatment/exposure: 72 hours** Amount/concentration applied: 300 ug I

Xylene Rat - Skin - Mild irritant

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

Rabbit - Skin - Moderate irritant

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

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

Rabbit - Skin - Moderate irritant n-Butyl acetate

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

Rabbit - Skin - Mild irritant Ethylbenzene

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

4-morpholinecarbaldehyde Rabbit - Skin - Mild irritant

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

Conclusion/Summary [Product]: Not available.

Serious eye damage/eye irritation

Product/ingredient name Result

Xylene Rabbit - Eyes - Mild irritant

Amount/concentration applied: 87 mg

Rabbit - Eyes - Severe irritant

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

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

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

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n-Butyl acetate Rabbit - Eves - Moderate irritant

Amount/concentration applied: 100 mg

Ethylbenzene Rabbit - Eyes - Severe irritant

Amount/concentration applied: 500 mg

4-morpholinecarbaldehyde Rabbit - Eyes - Mild irritant

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

Not available.

Conclusion/Summary [Product] : Not available.

Carcinogenicity

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

Xylene STOT SE 3, H335 (Respiratory tract irritation)

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

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

STOT SE 3, H336 (Narcotic effects) n-Butyl acetate 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)

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Aspiration hazard

Product/ingredient name Result

Xylene ASPIRATION HAZARD - Category 1
Solvent naphtha (petroleum), light aromatic ASPIRATION HAZARD - Category 1
Ethylbenzene ASPIRATION HAZARD - Category 1

Information on likely routes of exposure

Not available.

Potential acute health effects

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

Skin contact: Causes skin irritation. May cause an allergic skin reaction.

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

Short term exposure

Potential immediate : N

: 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. Once

sensitized, a severe allergic reaction may occur when subsequently exposed to

very low levels.

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

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

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)

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

11.2.2 Other information

Not available.

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12.1 Toxicity

Product/ingredient name

tifanium dioxide

Result

Acute - LC50 - Marine water

Fish - Mummichog - Fundulus heteroclitus

>1000000 µg/l [96 hours]

Effect: Mortality

Acute - LC50 - Fresh water

Crustaceans - Water flea - Ceriodaphnia dubia - Neonate

Age: <24 hours 3 mg/l [48 hours] Effect: Mortality

Solvent naphtha (petroleum), light aromatic

Acute - LC50

Fish

9.2 mg/l [96 hours]

Acute - EC50

Daphnia

3.2 mg/l [48 hours]

n-Butyl acetate

Acute - LC50 - Fresh water

Fish - Fathead minnow - Pimephales promelas Age: 31 to 32 days; Size: 21.6 mm; Weight: 0.175 g

18000 µg/l [96 hours] Effect: Mortality

Acute - LC50 - Marine water

Crustaceans - Brine shrimp - Artemia salina

32 mg/l [48 hours] Effect: Mortality

Reaction mass of Bis(1,2,2,6,6-pentamethyl-

4-piperidyl) sebacate and Methyl

1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Acute - LC50

OECD [Fish, Acute Toxicity Test]

Fish - Brachydanio rerio 0.9 mg/l [96 hours]

EC50

OECD [Alga, Growth Inhibition Test]

Aquatic plants - Desmodesmodus subspicatus

1.68 mg/l [72 hours]

Chronic - NOEC

OECD [Daphnia Magna Reproduction Test]

Daphnia - Daphnia 1 mg/l [21 days]

Conclusion/Summary [Product] : Not available.

12.2 Persistence and degradability

Not available.

Conclusion/Summary [Product]: Not available.

12.3 Bioaccumulative potential

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Product/ingredient name	LogPow	BCF	Potential
▼ylene	3.12	8.1 to 25.9	Low
2-Methoxy-1-methylethyl acetate	1.2	-	Low
Solvent naphtha (petroleum), light aromatic	-	10 to 2500	High
n-Butyl acetate	2.3	-	Low
Ethylbenzene	3.6	-	Low
4-morpholinecarbaldehyde	-	<1.9	Low

12.4 Mobility in soil

Soil/water partition coefficient

Product/ingredient name	logKoc	Koc
P-Methoxy-1-methylethyl acetate n-Butyl acetate Ethylbenzene 4-morpholinecarbaldehyde 12-hydroxy-N-[6- (12-hydroxyoctadecanamido)hexyl] octadecanamide	0.36 1.52 2.23 1.6 4.31	2.31363 33.2139 170.406 39.587 20556.9

Results of PMT and vPvM assessment

Product/ingredient name	PMT	P	M	Т	vPvM	vP	vM
tranium dioxide	No	No	No	No	No	No	No
Xylene	No	No	No	No	No	No	No
2-Methoxy-1-methylethyl acetate	No	No	No	No	No	No	No
Solvent naphtha (petroleum), light aromatic	No	No	No	No	No	No	No
n-Butyl acetate	No	No	No	No	No	No	No
Ethylbenzene	No	No	No	No	No	No	No
EO bis(benztriazolyl) phenylpropionat	No	No	No	No	No	No	No
4-morpholinecarbaldehyde	No	No	No	No	No	No	No
12-hydroxy-N-[6- (12-hydroxyoctadecanamido) hexyl]octadecanamide	No	No	No	No	No	No	No
Reaction mass of Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	No	No	No	No	No	No	No
Quaternary ammonium compounds, C12-14 (evennumbered) - alkylethyldimethyl, ethyl sulphates	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]

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Product/ingredient name	PBT	P	В	T	vPvB	vP	vB
iitanium dioxide	No	No	No	No	No	No	No
Xylene	No	No	No	No	No	No	No
2-Methoxy-1-methylethyl acetate	No	No	No	No	No	No	No
Solvent naphtha (petroleum), light aromatic	No	No	No	No	No	No	No
n-Butyl acetate	No	No	No	No	No	No	No
Ethylbenzene	No	No	No	No	No	No	No
EO bis(benztriazolyl) phenylpropionat	No	No	No	No	No	No	No
4-morpholinecarbaldehyde	No	No	No	No	No	No	No
12-hydroxy-N-[6- (12-hydroxyoctadecanamido) hexyl]octadecanamide	No	No	No	No	No	No	No
Reaction mass of Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	No	No	No	No	No	No	No
Quaternary ammonium compounds, C12-14 (evennumbered) - alkylethyldimethyl, ethyl sulphates	No	No	No	No	No	No	No

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

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
titanium dioxide	No	No	No	No	No	No	No
Xylene	No	No	No	No	No	No	No
2-Methoxy-1-methylethyl acetate	No	No	No	No	No	No	No
Solvent naphtha (petroleum), light aromatic	No	No	No	No	No	No	No
n-Butyl acetate	No	No	No	No	No	No	No
Ethylbenzene	No	No	No	No	No	No	No
EO bis(benztriazolyl) phenylpropionat	No	No	No	No	No	No	No
4-morpholinecarbaldehyde	No	No	No	No	No	No	No
12-hydroxy-N-[6- (12-hydroxyoctadecanamido) hexyl]octadecanamide	No	No	No	No	No	No	No
Reaction mass of Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl	No	No	No	No	No	No	No
1,2,2,6,6-pentamethyl- 4-piperidyl sebacate							N
Quaternary ammonium compounds, C12-14 (evennumbered) - alkylethyldimethyl, ethyl sulphates	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.

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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

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

European waste catalogue (EWC) : 080111*, 200127*

Packaging

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	<u> </u>			
	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	No.	No.	No.	No.

Additional information

ADR/RID

: Viscous liquid exception This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1. Tunnel code (D/E)

ADN

: Viscous liquid exception This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1.

IMDG

Viscous liquid exception This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.

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SECTION 14: Transport information

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]
FEKNODUR 100 9-00	≥90	3

Labelling

Other EU regulations

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Δir

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Water

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

Not listed.

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

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category

P5c

National regulations

Austria

Limitation of the use of : Permitted.

organic solvents

Belgium

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

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Ingredient name	Status
S tyrène	Listed
hydrocarbures polycycliques aromatiques	Listed

Czech Republic

Storage code : II

Denmark

Fire class : 17-1 Executive Order No. 1795/2015

Ingredient name	Annex I Section A	Annex I Section B
Manium dioxide	Listed	-
Ethylbenzene	Listed	-
Propan-2-ol	Listed	-

MAL-code : 4-5

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: 4-5

Application: When using scraper or knife, brush, roller etc. for pre- and post-treatments in a spray booth where the operator is outside the spray zone and when working in similar new* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone. When spraying in new* booths and cabins with non-atomizing guns.

- Protective clothing 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. 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, protective clothing and eye protection must be worn.

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

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

When spraying in existing* spray booths, if the operator is outside the spray zone. 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. 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 protective clothing 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, protective clothing and hood must be worn.

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SECTION 15: Regulatory information

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 Xylene
 2-Methoxy-1-methylethyl acetate
 Solvent naphtha (petroleum), light aromatic

RG 4bis, RG 84
RG 84

n-Butyl acetate RG 84
Ethylbenzene RG 84

Reinforced medical surveillance

: Act of July 11, 1977 determining the list of activities which require reinforced

nce medical surveillance: not applicable

Germany

Storage class (TRGS 510) : 3 Hazardous incident ordinance

This product is controlled under the Germany Hazardous Incident Ordinance.

Danger criteria

Category	Reference number
P5c	1.2.5.3

Hazard class for water : 2

Technical instruction on air quality control (TA Luft)

Number [Class]	Description	%
5 .2.1	Total dust	58.7
5.2.2 [III]	Dusty inorganic substances	0.015
5.2.5	Organic substances	41.3
5.2.5 [I]	Organic substances	30.9
5.2.7.1.3	Reproductive toxic substances	0.023

AOX : The product contains organically bound halogens and can contribute to the AOX value in waste water.

<u>Italy</u>

D.Lgs. 152/06 : Not determined.

Netherlands

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

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Ingredient name	Carcinogen	Mutagen	Reproductive toxicity - Fertility	Reproductive toxicity - Development	Harmful via breastfeeding
x ylene	-	-	-	Development 2	-
Solvent naphtha (petroleum), light arom.	Listed	Listed	-	-	-
complexe derivatives of oil and charcoal	Listed	-	-	-	-
ethanol	Listed	-	Fertility 1A	Development 1A	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

Product registration

number

: 671989

Sweden

Flammable liquid class

(SRVFS 2005:10)

: 2a

Switzerland

VOC content : **VOC** (w/w): 38%

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

15.2 Chemical safety

assessment

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

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

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

1272/2008]

DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

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

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Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
STOT SE 3, H335	Calculation method
STOT RE 2, H373	Calculation method
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

H 225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
	Harmful if swallowed.
H302	
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications [CLP/GHS]

Tull text of classification	
Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Aquatic Chronic 4	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Carc. 2	CARCINOGENICITY - Category 2
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE ÎRRITATION - 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
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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SECTION 16: Other information

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

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