SAFETY DATA SHEET



TEKNODUR COMBI 800-500 - All variants

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

1.1 Product identifier

Product name : TEKNODUR COMBI 800-500 - 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 RE 2, H373** Aquatic Chronic 2, H411

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









: Warning Signal word

Hazard statements : H226 - Flammable liquid and vapour.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H373 - May cause damage to organs through prolonged or repeated exposure.

H411 - Toxic 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.

P273 - Avoid release to the environment.

P260 - Do not breathe vapour.

Response

: P391 - Collect spillage.

Storage

: Not applicable.

Disposal

: P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

Hazardous ingredients

: Contains: Xylene and Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl)

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

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 |
|-------------------------|--|-----------|--|---|---------|
| intanium dioxide | REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7 | ≥10 - ≤25 | Carc. 2, H351 (inhalation) | - | [1] [*] |
| Xylene | REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9 | ≥10 - <20 | Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 (oral, inhalation) Asp. Tox. 1, H304 | ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/ I | [1] [2] |
| n-Butyl acetate | REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1 | ≤10 | 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] |

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SECTION 3: Composition/information on ingredients Trizinc bis(orthophosphate) REACH #: ≤3 Aquatic Acute 1, H400 M [Acute] = 1 [1] 01-2119485044-40 Aquatic Chronic 1, M [Chronic] = 1H410 EC: 231-944-3 CAS: 7779-90-0 Index: 030-011-00-6 [3-(2,3-epoxypropoxy) REACH #: <3 Eye Dam. 1, H318 [1] propyl]trimethoxysilane 01-2119513212-58 Aquatic Chronic 3, EC: 219-784-2 H412 CAS: 2530-83-8 M [Acute] = 1 Zinc oxide REACH #: ≤3 Aquatic Acute 1, H400 [1] 01-2119463881-32 Aquatic Chronic 1, M [Chronic] = 1H410 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7 Reaction mass of Bis REACH #: ≤0.3 Skin Sens. 1A, H317 M [Acute] = 1 [1] M [Chronic] = 1(1,2,2,6,6-pentamethyl-01-2119491304-40 Repr. 2, H361f 4-piperidyl) sebacate and EC: 915-687-0 Aquatic Acute 1, H400 CAS: 1065336-91-5 Aquatic Chronic 1, Methyl 1,2,2,6,6-pentamethyl-H410 4-piperidyl sebacate toluene REACH #: ≤0.3 Flam. Liq. 2, H225 [1] [2]

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

[1] Substance classified with a health or environmental hazard

01-2119471310-51 EC: 203-625-9

CAS: 108-88-3

- [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.

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.

Skin Irrit. 2, H315

STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3,

See Section 16 for the full text of the H statements declared

Repr. 2, H361d

H412

above.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

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.

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SECTION 4: First aid measures

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. 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 : No specific data.

Skin contact : Adverse symptoms may include the following:

> irritation redness

Ingestion : No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

: No specific treatment. **Specific treatments**

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing

media

: Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing

media

: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

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

Hazardous combustion products

Decomposition products may include the following materials: carbon dioxide

carbon monoxide sulfur oxides phosphorus oxides metal oxide/oxides

5.3 Advice for firefighters

Special protective actions for fire-fighters

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

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SECTION 5: Firefighting measures

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

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

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

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. Collect spillage.

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.

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.

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SECTION 7: Handling and storage

Advice on general occupational hygiene

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

7.2 Conditions for safe storage, including any incompatibilities

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

Seveso Directive - Reporting thresholds

Danger criteria

| Category | Notification and MAPP threshold | Safety report threshold |
|----------|---------------------------------|-------------------------|
| ₱5c | 5000 tonnes | 50000 tonnes |
| E2 | 200 tonnes | 500 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 |
|--|--|
| | Regulation on Limit Values - MAC (Austria, 12/2024) [Xylol |
| | (alle Isomeren, rein)] |
| | PEAK 15 minutes: 442 mg/m³ 4 times per shift. |
| | TWA 8 hours: 50 ppm. |
| | PEAK 15 minutes: 100 ppm 4 times per shift. |
| | TWA 8 hours: 221 mg/m³. |
| n-Butyl acetate | Regulation on Limit Values - MAC (Austria, 12/2024) |
| | [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, 12/2024) Absorbed |
| | through skin. |
| | TWA 8 hours: 100 ppm. |
| | TWA 8 hours: 440 mg/m³. |
| | CEIL 5 minutes: 200 ppm 8 times per shift. |
| | CEIL 5 minutes: 880 mg/m³ 8 times per shift. |
| [3-(2,3-epoxypropoxy)propyl]trimethoxysilane | Regulation on Limit Values - MAC (Austria, 12/2024) |
| | [1,2-Epoxy-3-(tolyloxy)propan (alle Isomeren)] Carc B. |
| | TWA 8 hours: 10 ppm. |
| | TWA 8 hours: 70 mg/m³. |
| | PEAK 15 minutes: 20 ppm 4 times per shift. |
| | PEAK 15 minutes: 140 mg/m³ 4 times per shift. |
| toluene | Regulation on Limit Values - MAC (Austria, 12/2024) d. |
| | Absorbed through skin. |
| | - |

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TWA 8 hours: 50 ppm. TWA 8 hours: 190 mg/m³.

PEAK 15 minutes: 100 ppm 4 times per shift. PEAK 15 minutes: 380 mg/m³ 4 times per shift.

Xylene

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

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

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 mg/m³. STEL 15 minutes: 125 ppm. STEL 15 minutes: 551 mg/m³.

toluene

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

TWA 8 hours: 20 ppm. TWA 8 hours: 77 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 384 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.

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.

toluene

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

through skin.

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Limit value 15 minutes: 384 mg/m³. Limit value 8 hours: 192 mg/m³. Limit value 15 minutes: 100 ppm. Limit value 8 hours: 50 ppm.

Xylene

Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) [ksilen] Absorbed through skin.

STELV 15 minutes: 442 mg/m³.

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

n-Butyl acetate

Date of issue/Date of revision

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.

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Ethylbenzene ELV 8 nours: 50 p

Xylene

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.

toluene

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: 384 mg/m³. STELV 15 minutes: 100 ppm. ELV 8 hours: 192 mg/m³. ELV 8 hours: 50 ppm.

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.

n-Butyl acetate 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.

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

through skin.

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

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

through skin.

STEL 15 minutes: 100 ppm. STEL 15 minutes: 384 mg/m³. TWA 8 hours: 50 ppm. TWA 8 hours: 192 mg/m³.

Kylene 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.

n-Butyl acetate Government regulation of Czech Republic PEL/NPK-P (Czech

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.

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

Republic, 12/2023) Absorbed through skin.

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

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

Republic, 12/2023) Absorbed through skin.

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TWA 8 hours: 192 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 384 mg/m³. STEL 15 minutes: 100 ppm.

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Xylene Working Environment Authority (Denmark, 12/2024) [xylen, alle isomere] Absorbed through skin. TWA 8 hours: 25 ppm. TWA 8 hours: 109 mg/m³. STEL 15 minutes: 442 mg/m³. STEL 15 minutes: 100 ppm. Working Environment Authority (Denmark, 12/2024) 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. Working Environment Authority (Denmark, 12/2024) K. Ethylbenzene 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. toluene Working Environment Authority (Denmark, 12/2024) Absorbed through skin. TWA 8 hours: 25 ppm. TWA 8 hours: 94 mg/m³. STEL 15 minutes: 384 mg/m³. STEL 15 minutes: 100 ppm. Xylene 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. n-Butyl acetate Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m³. TWA 8 hours: 50 ppm. TWA 8 hours: 241 mg/m³. Occupational exposure limits, Regulation No. 293 (Estonia, Ethylbenzene 4/2024) Absorbed through skin, Sensitiser. TWA 8 hours: 442 mg/m³. TWA 8 hours: 100 ppm. STEL 15 minutes: 884 mg/m³. STEL 15 minutes: 200 ppm. Occupational exposure limits, Regulation No. 293 (Estonia, toluene 4/2024) Absorbed through skin. TWA 8 hours: 192 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 384 mg/m³. STEL 15 minutes: 100 ppm. **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. EU OEL (Europe, 1/2022) n-Butyl acetate 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.

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

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

TWA 8 hours: 192 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 384 mg/m³. STEL 15 minutes: 100 ppm.

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.

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

(Finland, 10/2021) Absorbed through skin. TWA 8 hours: 50 ppm.

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

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

TWA 8 hours: 25 ppm. TWA 8 hours: 81 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 380 mg/m³.

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)

(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)

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) 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

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)

Ministry of Labor (France, 6/2024) Repr 2. Absorbed through skin, Ototoxicant.

TWA 8 hours: 20 ppm. Notes: Binding regulatory limit values

Xylene

n-Butyl acetate

Ethylbenzene

toluene

Xylene

n-Butyl acetate

Ethylbenzene

toluene

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

TWA 8 hours: 76.8 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)

STEL 15 minutes: 384 mg/m³. Notes: Binding regulatory limit

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

TRGS 900 OEL (Germany, 6/2024) [Xylol] Absorbed through skin.

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

DFG MAC-values list (Germany, 7/2024) [Xylene] Develop D.

Absorbed through skin. TWA 8 hours: 50 ppm.

PEAK 15 minutes: 100 ppm 4 times per shift [Interval: 1 hour].

TWA 8 hours: 220 mg/m³.

PEAK 15 minutes: 440 mg/m³ 4 times per shift [Interval: 1 hour].

TRGS 900 OEL (Germany, 6/2024)

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, 7/2024) 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].

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, 7/2024) Carc 4, Develop C.

Absorbed through skin.

PEAK 15 minutes: 40 ppm 4 times per shift [Interval: 1 hour]. PEAK 15 minutes: 176 mg/m³ 4 times per shift [Interval: 1 hour].

TWA 8 hours: 88 mg/m³. TWA 8 hours: 20 ppm.

TRGS 900 OEL (Germany, 6/2024) Absorbed through skin.

TWA 8 hours: 190 mg/m³. PEAK 15 minutes: 380 mg/m³. TWA 8 hours: 50 ppm. PEAK 15 minutes: 100 ppm.

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

through skin.

TWA 8 hours: 50 ppm.

PEAK 15 minutes: 100 ppm 4 times per shift [Interval: 1 hour].

TWA 8 hours: 190 mg/m³.

PEAK 15 minutes: 380 mg/m³ 4 times per shift [Interval: 1 hour].

Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024) [ξυλόλια (όλα τα ισομερή)] Absorbed

through skin.

TWA 8 hours: 100 ppm. TWA 8 hours: 435 mg/m³. STEL 15 minutes: 150 ppm. STEL 15 minutes: 650 mg/m³.

Presidential Decree 307/1986: Occupational exposure limit

values (Greece, 8/2024) TWA 8 hours: 50 ppm. TWA 8 hours: 241 mg/m³. STEL 15 minutes: 150 ppm.

n-Butyl acetate

Xylene

Ethylbenzene

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Xylene

n-Butyl acetate

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Xylene

STEL 15 minutes: 723 mg/m³. Ethylbenzene Presidential Decree 307/1986:

Presidential Decree 307/1986: Occupational exposure limit

values (Greece, 8/2024)
TWA 8 hours: 100 ppm.
TWA 8 hours: 435 mg/m³.

STEL 15 minutes: 125 ppm. STEL 15 minutes: 545 mg/m³.

toluene Presidential Decree 307/1986: Occupational exposure limit

values (Greece, 8/2024) Absorbed through skin.

TWA 8 hours: 50 ppm. TWA 8 hours: 192 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 384 mg/m³.

5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) [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.

n-Butyl acetate 5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) Sensitiser.

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

Ethylbenzene 5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) Absorbed through

skin.

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

toluene 5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) Absorbed through

skin.

TWA 8 hours: 192 mg/m³. PEAK 15 minutes: 384 mg/m³. PEAK 15 minutes: 100 ppm. TWA 8 hours: 50 ppm.

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

[Xýlen, allir ísómerar] Absorbed through skin.

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

n-Butyl acetate Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024)

[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, 11/2024)

Absorbed through skin.

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

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

Absorbed through skin.

STEL 15 minutes: 188 mg/m³. STEL 15 minutes: 50 ppm. TWA 8 hours: 94 mg/m³. TWA 8 hours: 25 ppm.

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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. 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. Zinc oxide NAOSH (Ireland, 4/2024) Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV 8 hours: 2 mg/m³. Form: respirable fraction. OELV 15 minutes: 10 mg/m³. Form: fume. toluene NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 50 ppm. OELV 8 hours: 192 mg/m³. OELV 15 minutes: 100 ppm. OELV 15 minutes: 384 mg/m³. Xylene Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 9/2024) [xilene, isomeri misti, puro] Absorbed through skin. Limit value 8 hours: 50 ppm. Limit value 8 hours: 221 mg/m³. Short Term 15 minutes: 100 ppm. Short Term 15 minutes: 442 mg/m³. Legislative Decree No. 81/2008. Title IX. Protection from n-Butyl acetate chemical agents, carcinogens and mutagens (Italy, 9/2024) Short Term 15 minutes: 150 ppm. Short Term 15 minutes: 723 mg/m3. Limit value 8 hours: 50 ppm. Limit value 8 hours: 241 mg/m³. Legislative Decree No. 81/2008. Title IX. Protection from Ethylbenzene chemical agents, carcinogens and mutagens (Italy, 9/2024) 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. toluene Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 9/2024) Absorbed through skin. Limit value 8 hours: 50 ppm. Limit value 8 hours: 192 mg/m³. Short Term 15 minutes: 100 ppm. Short Term 15 minutes: 384 mg/m³. Xylene Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) [Ksilols] Absorbed through skin. TWA 8 hours: 221 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m³. Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) n-Butyl acetate

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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.

toluene

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

Absorbed through skin. TWA 8 hours: 50 mg/m³. STEL 15 minutes: 150 mg/m³. TWA 8 hours: 14 ppm. STEL 15 minutes: 40 ppm.

Xylene

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

[ksilenas, mišrūs izomerai, grynas] Absorbed through skin. STEL 15 minutes: 442 mg/m³.

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

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

Zinc oxide

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

TWA 8 hours: 5 mg/m³.

toluene

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

Absorbed through skin. TWA 8 hours: 192 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 384 mg/m³. STEL 15 minutes: 100 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.

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.

toluene

Grand-Duchy Regulation 2016. Chemical agents. Annex I

(Luxembourg, 3/2021) Absorbed through skin.

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STEL 15 minutes: 100 ppm. STEL 15 minutes: 384 mg/m³. TWA 8 hours: 50 ppm. TWA 8 hours: 192 mg/m³. Xylene EU OEL (Europe, 1/2022) [xylene, mixed isomers] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m³. 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. EU OEL (Europe, 1/2022) Absorbed through skin. toluene TWA 8 hours: 192 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 384 mg/m³. STEL 15 minutes: 100 ppm. **X**ylene 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. n-Butyl acetate Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) 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. Ministry of Social Affairs and Employment, Legal limit values toluene (Netherlands, 5/2024) TWA 8 hours: 150 mg/m³. STEL 15 minutes: 384 mg/m³. STEL 15 minutes: 100 ppm. TWA 8 hours: 39 ppm. Xylene FOR-2011-12-06-1358 (Norway, 5/2024) [xylen] Absorbed through skin. TWA 8 hours: 25 ppm. TWA 8 hours: 108 mg/m³. FOR-2011-12-06-1358 (Norway, 5/2024) n-Butyl acetate 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, 5/2024) Carc. Absorbed through skin. TWA 8 hours: 5 ppm.

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toluene

TWA 8 hours: 20 mg/m³.

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

TWA 8 hours: 25 ppm. TWA 8 hours: 94 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, 7/2024) [xylene – mixed isomers (1,2-, 1,3-, 1,4-)] Absorbed through skin.

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

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

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

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

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

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

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

Portuguese Institute of Quality (Portugal, 11/2014) [xileno

(isómeros o, m & p)] A4. TWA 8 hours: 100 ppm. STEL 15 minutes: 150 ppm.

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

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

Portuguese Institute of Quality (Portugal, 11/2014)

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

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

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

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

TWA 8 hours: 20 ppm.

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

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

Portuguese Institute of Quality (Portugal, 11/2014) A4.

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Ethylbenzene

n-Butyl acetate

toluene

Xylene

n-Butyl acetate

Ethylbenzene

toluene

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TWA 8 hours: 20 ppm.

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

STEL 15 minutes: 100 ppm. STEL 15 minutes: 384 mg/m³. TWA 8 hours: 50 ppm. TWA 8 hours: 192 mg/m³.

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

VLA 8 hours: 221 mg/m³. VLA 8 hours: 50 ppm.

Short term 15 minutes: 442 mg/m³. Short term 15 minutes: 100 ppm.

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

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.

HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) R2. Absorbed through skin.

VLA 8 hours: 192 mg/m³. VLA 8 hours: 50 ppm.

Short term 15 minutes: 384 mg/m³. Short term 15 minutes: 100 ppm.

Government regulation SR c. 355/2006 (Slovakia, 6/2024) [xylén, zmiešané izoméry] Absorbed through skin, Inhalation

sensitiser.

TWA 8 hours: 221 mg/m³ (xylene, mixed isomers). TWA 8 hours: 50 ppm (xylene, mixed isomers). STEL 15 minutes: 442 mg/m³ (xylene, mixed isomers). STEL 15 minutes: 100 ppm (xylene, mixed isomers).

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

[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).

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

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.

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

Absorbed through skin, Inhalation sensitiser.

TWA 8 hours: 192 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 384 mg/m³. STEL 15 minutes: 100 ppm.

Xylene

n-Butyl acetate

Ethylbenzene

toluene

Xylene

n-Butyl acetate

Ethylbenzene

toluene

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Xvlene 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]. n-Butyl acetate Regulation on protection of workers from the risks related to 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]. toluene Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) Repr Dev 2. Absorbed through skin. TWA 8 hours: 192 mg/m³. TWA 8 hours: 50 ppm. KTV 15 minutes: 384 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]. Xylene National institute of occupational safety and health (Spain, 1/2024) [xileno, mezcla isómeros] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m³. National institute of occupational safety and health (Spain, n-Butyl acetate 1/2024) TWA 8 hours: 50 ppm. TWA 8 hours: 241 mg/m³. STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m³. Ethylbenzene National institute of occupational safety and health (Spain, 1/2024) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 441 mg/m³.

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

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

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TWA 8 hours: 50 ppm. TWA 8 hours: 192 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 384 mg/m³.

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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, n-Butyl acetate 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. Ethylbenzene Work environment authority Regulation 2018:1 (Sweden, 11/2022) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 220 mg/m³. STEL 15 minutes: 200 ppm. STEL 15 minutes: 884 mg/m³. Zinc oxide Work environment authority Regulation 2018:1 (Sweden, 11/2022) TWA 8 hours: 5 mg/m³. Form: Total dust. Work environment authority Regulation 2018:1 (Sweden, toluene 11/2022) Absorbed through skin, Ototoxicant. TWA 8 hours: 50 ppm. TWA 8 hours: 192 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 384 mg/m³. **X**ylene SUVA (Switzerland, 1/2025) [Xylol] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 220 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 440 mg/m³. SUVA (Switzerland, 1/2025) 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. Ethylbenzene SUVA (Switzerland, 1/2025) Absorbed through skin, Ototoxicant. TWA 8 hours: 50 ppm. TWA 8 hours: 220 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 220 mg/m³. toluene SUVA (Switzerland, 1/2025) Develop 2. Absorbed through skin, Ototoxicant. TWA 8 hours: 50 ppm. TWA 8 hours: 190 mg/m³. STEL 15 minutes: 200 ppm. STEL 15 minutes: 760 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. n-Butyl acetate EH40/2005 WELs (United Kingdom (UK), 1/2020) 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

through skin.

STEL 15 minutes: 552 mg/m³.

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STEL 15 minutes: 125 ppm. TWA 8 hours: 100 ppm. TWA 8 hours: 441 mg/m³. EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed toluene through skin. STEL 15 minutes: 384 mg/m³. TWA 8 hours: 191 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 100 ppm.

Biological exposure indices

| Product/ingredient name | Exposure indices |
|---|--|
| X ylene | VGU BEI (Austria, 9/2020) [Xylole] |
| • | BEI Fitness: 1000 μg/l, xylene [in blood]. Sampling time: one year. |
| | BEI Fitness: 1.5 g/l, methylhippuricacid [in urine]. Sampling time: |
| | one year. |
| toluene | VGU BEI (Austria, 9/2020) |
| | BEI Fitness: 250 μg/l, toluene [in blood]. Sampling time: one year. |
| | BEI Fitness: 0.8 mg/l, o-cresol [in urine]. Sampling time: one year. BEI Fitness: 130000 /µl, platelets (non-pathological differential |
| | blood count) [in blood]. Sampling time: one year. |
| | BEI Fitness: 150000 /μl, platelets [in blood]. Sampling time: one |
| | year. BEI Fitness: 3700 to 13000 /μΙ, leukocytes (non-pathological |
| | differential blood count) [in blood]. Sampling time: one year. |
| | BEI Fitness: 4000 to 13000 /µl, leukocytes [in blood]. Sampling |
| | time: one year. |
| | BEI Fitness - men: 3.8 million/µl, erythrocytes [in blood]. Sampling |
| | time: one year. BEI Fitness - women: 3.2 million/µl, erythrocytes [in blood]. |
| | Sampling time: one year. |
| | BEI Fitness - men: 12 g/dl, hemoglobin [in blood]. Sampling time: |
| | one year. |
| | BEI Fitness - women: 10 g/dl, hemoglobin [in blood]. Sampling |
| | time: one year. |
| No exposure indices known. | |
| | 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. |
| toluene | Ministry of Labour and Social Policy and the Ministry of |
| toluerie | Health - Ordinance No 13/2003. (Bulgaria, 4/2024) |
| | BLV: 1.6 mmol/mmol creatinine, hippuric acid [in urine]. Sampling |
| | time: at the end of the exposure or at the end of the work shift. |
| K ylene | Ordinance on the protection of workers from exposure to |
| | hazardous chemicals at work, biological limit values (Annex |
| | IV) (Croatia, 12/2023) [ksilen] BEI: 1.5 mg/l, xylene [in blood]. Sampling time: at the end of the |
| | work shift. |
| | BEI: 14.13 µmol/l, xylene [in blood]. Sampling time: at the end of |
| | the work shift. |
| | BEI: 0.88 mol/mol creatinine, methylhippuric acid [in urine]. |
| | Sampling time: at the end of the work shift. BEI: 1.5 g/g creatinine, methylhippuric acid [in urine]. Sampling |
| | time: at the end of the work shift. |
| Ethylbenzene | Ordinance on the protection of workers from exposure to |
| , | hazardous chemicals at work, biological limit values (Annex |
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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.

Ordinance on the protection of workers from exposure to hazardous chemicals at work, biological limit values (Annex IV) (Croatia, 12/2023)

BEI: 20 ppm, toluene [in end exhaled air]. Sampling time: during exposure.

BEI: 0.83 µmol/l, toluene [in end exhaled air]. Sampling time: during exposure.

BEI: 1 mg/l, toluene [in blood]. Sampling time: at the end of the work shift.

BEI: 10.85 μmol/l, toluene [in blood]. Sampling time: at the end of the work shift.

BEI: 1.05 mmol/mol creatinine, o-cresol [in urine]. Sampling time: at the end of the work shift.

BEI: 1 mg/g creatinine, o-cresol [in urine]. Sampling time: at the end of the work shift.

BEI: 1.58 mol/mol creatinine, hippuric acid [in urine]. Sampling time: at the end of the work shift.

BEI: 2.5 g/g creatinine, hippuric acid [in urine]. Sampling time: at the end of the work shift.

No exposure indices known.



toluene

Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015) [Xyleny]

Biological limit values: 820 µmol/mmol creatinine, methylhippuric acid [in urine]. Sampling time: end of the shift.

Biological limit values: 1400 mg/g creatinine, methylhippuric acid [in urine]. Sampling time: end of the shift.

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.

Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015)

Biological limit values: 1000 µmol/mmol creatinine, hippuric acid [in urine]. Sampling time: end of the shift.

Biological limit values: 1600 mg/g, hippuric acid [in urine]. Sampling time: end of the shift.

Biological limit values: 1.6 µmol/mmol creatinine, o-kresol (after hydrolysis) [in urine]. Sampling time: end of the shift.

Biological limit values: 1.5 mg/g creatinine, o-kresol (after hydrolysis) [in urine]. Sampling time: end of the shift.

Ethylbenzene

toluene

No exposure indices known.

No exposure indices known.

No exposure indices known.

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Xvlene

Ethylbenzene

toluene

toluene

Xylene

Ethylbenzene

toluene

No exposure indices known.

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

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

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.

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

BEI: 500 nmol/l, toluene [in blood]. Sampling time: the morning after the working day.

Biological limit values (BLV) - Labour Code / ANSES (France, 4/2023)

BLV: 30 µg/l, toluene [in urine]. Sampling time: at the end of the

BLV: 20 µg/l, toluene [in blood]. Sampling time: at the beginning of the shift and at the end of the week.

BLV: 300 µg/g Cr, ortho-cresol [in urine]. Sampling time: end of shift and weekend.

DFG BEI-values list (Germany, 7/2024) [Xylene (all isomers)] Notes: danger from percutaneous absorption (see p. 211 and p.

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

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

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

DFG BEI-values list (Germany, 7/2024) Notes: danger from percutaneous absorption (see p. 211 and p. 228).

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

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

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

DFG BEI-values list (Germany, 7/2024) Notes: danger from percutaneous absorption (see p. 211 and p. 228).

BEI: 600 μg/l, toluene [in blood]. Sampling time: immediately after exposure.

BEI: 1.5 mg/l, o-cresol (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift / for long-term exposures: at the end of the shift after several shifts.

BEI: 75 μg/l, toluene [in urine]. Sampling time: end of exposure or end of shift.

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

BEI: 600 µg/l, toluene [in whole blood]. Sampling time: immediately after exposure.

BEI: 1.5 mg/l, o-cresol (after hydrolysis) [in urine]. Sampling time: at the end of the shift, for long-term exposure after several previous shifts.

BEI: 75 µg/l, toluene [in urine]. Sampling time: end of exposure or end of shift.

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Xylene

Ethylbenzene

toluene

No exposure indices known.

Xylene

Ethylbenzene

toluene

No exposure indices known.

Xylene

toluene

No exposure indices known.

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

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

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

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

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

BEI: 1 mg/g creatinine, o-cresol [in urine]. Sampling time: at the end of the shift.

BEI: 1 µmol/mmol creatinine, o-cresol [in urine]. Sampling time: at the end of the shift.

NAOSH BGVs (Ireland, 1/2011) [Xylene]

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

NAOSH BGVs (Ireland, 1/2011)

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

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

NAOSH BGVs (Ireland, 1/2011)

BMGV: 0.3 mg/g creatinine, o-cresol [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.

BMGV: 0.03 mg/l, toluene [in urine]. Sampling time: end of shift -As soon as possible after exposure ceases.

BMGV: 0.02 mg/l, toluene [in blood]. Sampling time: prior to last shift of workweek.

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

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

Minister Cabinet Regulations No.325 - BEI (Latvia, 3/2024)

BEI: 600 µg/l, toluene [in blood]. Sampling time: at the end of the exposure.

BEI: 75 μg/l, toluene [in urine]. Sampling time: end of the shift. BEI: 1.5 mg/l, o-cresol (after hydrolysis) [in urine]. Sampling time: at the end of the exposure or at the end of the shift.

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SECTION 8: Exposure controls/personal protection No exposure indices known. Xylene Portuguese Institute of Quality (Portugal, 11/2014) [Xilenos (graus técnico e comercial)] BEI: 1.5 g/g creatinine, (o, m, p) -methyl-boronic acids [in urine]. Sampling time: end of shift. Portuguese Institute of Quality (Portugal, 11/2014) Ethylbenzene BEI: 0.7 g/g creatinine, sum of mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift. Portuguese Institute of Quality (Portugal, 11/2014) toluene BEI: 0.3 mg/g creatinine, o-cresol [in urine]. Sampling time: end of shift. BEI: 0.03 mg/l, toluene [in urine]. Sampling time: end of shift. BEI: 0.02 mg/l, toluene [in blood]. Sampling time: end of shift at the end of the workweek. Xylene HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2024) [xilen] OBLV: 3 g/l, methylhippuric acid [in urine]. Sampling time: end of shift. Ethylbenzene 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. toluene HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2024) OBLV: 3 mg/l, o-cresol [in urine]. Sampling time: end of shift. OBLV: 2 g/l, hippuric acid [in urine]. Sampling time: end of shift. **X**ylene Government regulation SR c. 355/2006 (Slovakia, 6/2024) [xylén (všetky izoméry)] BLV: 781 µmol/mmol creatinine, as sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1334 mg/g creatinine, as sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 10355 µmol/l, as sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 14.6 µmol/l, as xylene [in blood]. Sampling time: at the end

of exposure or work shift.

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

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

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

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

BLV: 7.44 µmol/mmol creatinine, as 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

BLV: 1067 mg/g creatinine, as mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

BLV: 8.03 mg/g creatinine, as 2 or 4-etylfenol [in urine]. Sampling

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Ethylbenzene

time: at the end of exposure or work shift; long-term exposure: after several work shifts.

BLV: 10590 µmol/l, as mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term 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; long-term 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.

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

BLV: 1010 µmol/mmol creatinine, as hippuric acid [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 1.08 µmol/mmol creatinine, as o-cresol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

BLV: 1600 mg/g creatinine, as hippuric acid [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 1.03 mg/g creatinine, as o-cresol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

BLV: 13399 µmol/l, as hippuric acid [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 14.3 µmol/l, as o-cresol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

BLV: 6517 nmol/l, as toluene [in blood]. Sampling time: at the end of exposure or work shift.

BLV: 2401 mg/l, as hippuric acid [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 1.5 mg/l, as o-cresol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts

BLV: $600 \mu g/l$, as toluene [in blood]. Sampling time: at the end of exposure or work shift.

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

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

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

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

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

BAT: 1.5 mg/l, o-cresol (after hydrolysis) [in urine]. Sampling time: at the end of the work shift, at long-term exposure: at the end of the work shift after several consecutive workdays.

BAT: 600 µg/l, toluene [in blood]. Sampling time: immediately after exposure.

BAT: 75 μ g/l, toluene [in urine]. Sampling time: at the end of the work shift.

toluene

Xylene

Ethylbenzene

toluene

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Xvlene

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

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

Ethylbenzene

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.

toluene

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

VLB: 0.05 mg/l, toluene [in blood]. Sampling time: prior to last shift of workweek.

VLB: 0.6 mg/g creatinine, o-cresol [in urine]. Sampling time: end

VLB: 0.08 mg/l, toluene [in urine]. Sampling time: end of shift.

No exposure indices known.

Xylene

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

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

Ethylbenzene

SUVA (Switzerland, 1/2025)

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

toluene

SUVA (Switzerland, 1/2025)

BEI: 2 g/g creatinine, hippuric acid [in urine]. Sampling time: immediately after exposure or after working hours. In case of longterm exposure: after more than one shift.

BEI: 1.26 mmol/mmol creatinine, hippuric acid [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.

BEI: 0.5 mg/l, o-cresol [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.

BEI: 4.62 µmol/l, o-cresol [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.

BEI: 600 μg/l, toluene [in blood]. Sampling time: immediately after exposure or after working hours.

BEI: 6.48 µmol/l, toluene [in blood]. Sampling time: immediately after exposure or after working hours.

BEI: 75 μg/l, toluene [in urine]. Sampling time: immediately after exposure or after working hours.

Xylene

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

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

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

Product/ingredient name Result

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titanium dioxide

Xylene

DNEL - General population - Long term - Inhalation

28 μg/m³ Effects: Local

DNEL - Workers - Long term - Inhalation

170 µg/m³ Effects: Local

DNEL - General population - Long term - Oral

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

DNEL - General population - Long term - Inhalation

65.3 mg/m³ Effects: Local

DNEL - General population - Long term - Inhalation

65.3 mg/m³
<u>Effects</u>: 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
<u>Effects</u>: 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 - Oral

2 mg/kg bw/day <u>Effects</u>: 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

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n-Butyl acetate

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Effects: Systemic

DNEL - Workers - Long term - Dermal

7 mg/kg bw/day Effects: Systemic

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 <u>Effects</u>: 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

Effects: Systemic

DNEL - General population - Long term - Oral

1.6 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

Label No : 1/25529

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

Ethylbenzene

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DNEL - Workers - Short term - Inhalation

293 mg/m³ Effects: Local

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane

DNEL - General population - Long term - Oral

5 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Dermal

5 mg/kg bw/day Effects: Systemic

DNEL - Workers - Long term - Dermal

10 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

17 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation

70.5 mg/m³ Effects: Systemic

DNEL - General population - Short term - Inhalation

26400 mg/m³ Effects: Systemic

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

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

DNEL - General population - Long term - Oral

8.13 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

56.5 mg/m³ Effects: Local

DNEL - General population - Long term - Inhalation

56.5 mg/m³ Effects: Systemic

DNEL - Workers - Long term - Inhalation

192 mg/m³ Effects: Local

DNEL - Workers - Long term - Inhalation

192 mg/m³

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Effects: Systemic

DNEL - General population - Long term - Dermal

226 mg/kg bw/day Effects: Systemic

DNEL - General population - Short term - Inhalation

226 mg/m³ Effects: Local

DNEL - General population - Short term - Inhalation

226 mg/m³ Effects: Systemic

DNEL - Workers - Long term - Dermal

384 mg/kg bw/day Effects: Systemic

DNEL - Workers - Short term - Inhalation

384 mg/m³ Effects: Local

DNEL - Workers - Short term - Inhalation

384 mg/m³ 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

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.

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> 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:

Filter type (spray application):

Environmental exposure controls

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

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid. Colour : Various Odour : Slight

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

Initial boiling point and

boiling range

| Ingredient name | °C | °F | Method |
|-----------------|-------|-------|----------|
| Butyl acetate | 126 | 258.8 | OECD 103 |
| Ethylbenzene | 136.1 | 277 | OECD 104 |

: Not available. **Flammability**

wer: 0.8% (xylene) Lower and upper explosion

limit Upper: 7.6% (n-butyl acetate) Closed cup: 24°C (75.2°F) Flash point

Auto-ignition temperature

| Ingredient name | °C | °F | Method |
|--|-----|-----|-----------|
| [3-(2,3-epoxypropoxy)propyl]trimethoxysilane | 400 | 752 | DIN 51794 |
| n-Butyl acetate | 415 | 779 | EU A.15 |

Decomposition temperature : Not available.

Not available. pН Not available. **Viscosity**

Solubility(ies)

Not available.

Solubility in water : Not available.

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SECTION 9: Physical and chemical properties

Partition coefficient: n-octanol/ : Not applicable.

water

Vapour pressure

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

Relative density : Not available. : 1.4 g/cm³ **Density** : Not available. Vapour density

Particle characteristics

Median particle size : Not applicable.

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Explosive properties : Not available. **Oxidising properties** : Not available.

9.2.2 Other safety characteristics

Not applicable.

SECTION 10: Stability and reactivity

: 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.

10.5 Incompatible materials : Reactive or incompatible with the following materials:

oxidising materials

10.6 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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

Acute toxicity

Product/ingredient name Result

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]

n-Butyl acetate Rat - Oral - LD50

10760 mg/kg

Rabbit - Dermal - LD50

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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]

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane

Rat - Oral - LD50

7.01 g/kg

Toxic effects: Behavioral - Somnolence (general depressed

activity) Behavioral - Coma

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

toluene Rat - Oral - LD50

636 mg/kg

Rat - Inhalation - LC50 Vapour

49 g/m³ [4 hours]

Conclusion/Summary [Product] : Not available.

Acute toxicity estimates

| Product/ingredient name | Oral (mg/ kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|--|------------------|-------------------|--------------------------------|-----------------------------------|--|
| FEKNODUR COMBI 800-500 | N/A | 7223.2 | N/A | 59.2 | N/A |
| Xylene | 4300 | 1100 | N/A | 11 | N/A |
| n-Butyl acetate | 10760 | 14112 | N/A | N/A | N/A |
| Ethylbenzene | 3500 | 15400 | N/A | 11 | 29000 |
| [3-(2,3-epoxypropoxy)propyl]trimethoxysilane | 7010 | N/A | N/A | N/A | N/A |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl- | 3230 | N/A | N/A | N/A | N/A |
| 4-piperidyl) sebacate and Methyl | | | | | |
| 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | | | | | |
| toluene | N/A | N/A | N/A | 49 | N/A |

Skin corrosion/irritation

Product/ingredient name Result

₩anium dioxide Human - Skin - Mild irritant

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

Xylene Rat - Skin - Mild irritant

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

Rabbit - Skin - Moderate irritant

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

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Rabbit - Skin - Moderate irritant

Amount/concentration applied: 100 %

n-Butyl acetate Rabbit - Skin - Moderate irritant

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

Ethylbenzene Rabbit - Skin - Mild irritant

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

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane Rabbit - Skin - Mild irritant

Amount/concentration applied: 500 mg

Zinc oxide Rabbit - Skin - Mild irritant

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

toluene Pig - Skin - Mild irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 250 uL

Rabbit - Skin - Mild irritant

Amount/concentration applied: 435 mg

Rabbit - Skin - Moderate irritant

<u>Duration of treatment/exposure</u>: 24 hours

Amount/concentration applied: 20 mg

Rabbit - Skin - Moderate irritant Amount/concentration applied: 500 mg

Conclusion/Summary [Product]: Not available.

Serious eye damage/eye irritation

Product/ingredient name Result

Kylene Rabbit - Eyes - Mild irritant

Amount/concentration applied: 87 mg

Rabbit - Eyes - Severe irritant

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

n-Butyl acetate Rabbit - Eyes - Moderate irritant

Amount/concentration applied: 100 mg

Ethylbenzene Rabbit - Eyes - Severe irritant

Amount/concentration applied: 500 mg

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane Rabbit - Eyes - Mild irritant

Amount/concentration applied: 100 mg

Zinc oxide Rabbit - Eyes - Mild irritant

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

toluene Rabbit - Eyes - Mild irritant

<u>Duration of treatment/exposure</u>: 0.5 minutes <u>Amount/concentration applied</u>: 100 mg

Rabbit - Eyes - Mild irritant

Amount/concentration applied: 870 ug

Rabbit - Eyes - Severe irritant

Duration of treatment/exposure: 24 hours

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Amount/concentration applied: 2 mg

Rabbit - Eyes - Severe irritant
Amount/concentration applied: 0.1 MI

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

Kylene STOT SE 3, H335 (Respiratory tract irritation)

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

Specific target organ toxicity (repeated exposure)

Product/ingredient name Result

▼ylene STOT RE 2, H373 (oral, inhalation)

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

toluene STOT RE 2, H373

Aspiration hazard

Product/ingredient name Result

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XyleneASPIRATION HAZARD - Category 1EthylbenzeneASPIRATION HAZARD - Category 1tolueneASPIRATION HAZARD - Category 1

Information on likely routes of exposure

Not available.

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : No known significant effects or critical hazards.

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 : No specific data.

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

: 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

n-Butyl acetate

Trizinc bis(orthophosphate)

Zinc oxide

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

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

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

Acute - EC50

Crustaceans - Ceriodaphnia dubia

0.96 mg/l [48 hours]

Acute - EC50

Algae - Selenastrum capricornutum

0.32 mg/l [72 hours]

Acute - LC50 - Fresh water

Daphnia - Water flea - Daphnia magna - Neonate

Age: <24 hours 98 µg/l [48 hours] Effect: Mortality

Acute - IC50 - Fresh water

Algae - Green algae - Pseudokirchneriella subcapitata -

Exponential growth phase

46 µg/l [72 hours] Effect: Population

Acute - LC50 - Fresh water

US EPA

Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss

Weight: 0.78 g 1.1 ppm [96 hours] Effect: Mortality

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

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1 mg/l [21 days]

toluene

Acute - LC50 - Fresh water

Fish - Coho salmon, silver salmon - Oncorhynchus kisutch - Fry

Weight: 1 g

5500 μg/l [96 hours] Effect: Mortality

Acute - EC50 - Fresh water

Algae - Green algae - Pseudokirchneriella subcapitata

12500 µg/l [72 hours]

Effect: Growth

Chronic - NOEC - Fresh water

Daphnia - Water flea - Daphnia magna

Age: ≤24 hours 1000 µg/l [21 days] Effect: Reproduction

Acute - EC50 - Fresh water

Daphnia - Water flea - Daphnia magna - Neonate

Age: ≤24 hours 5.56 mg/l [48 hours] Effect: Intoxication

Conclusion/Summary [Product] : Not available.

12.2 Persistence and degradability

Not available.

Conclusion/Summary [Product]: Not available.

12.3 Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|-----------------------------|--------|-------------|-----------|
| Vylene | 3.12 | 8.1 to 25.9 | Low |
| n-Butyl acetate | 2.3 | - | Low |
| Ethylbenzene | 3.6 | - | Low |
| Trizinc bis(orthophosphate) | - | 60960 | High |
| Zinc oxide | - | 28960 | High |
| toluene | 2.73 | 90 | Low |

12.4 Mobility in soil

Soil/water partition coefficient

| Product/ingredient name | logKoc | Koc |
|---|------------|--------------------|
| F-Butyl acetate | | 33.2139 170.406 |
| Ethylbenzene [3-(2,3-epoxypropoxy)propyl] | 2.2 2.4 | 266.308 |
| trimethoxysilane toluene | 2.1 | 117.115 |

Results of PMT and vPvM assessment

| Product/ingredient name | PMT | Р | M | Т | vPvM | vP | vM |
|--|-----|----|----|----|------|----|----|
| titanium dioxide | No | No | No | No | No | No | No |
| Xylene | 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 |
| Trizinc bis(orthophosphate) | No | No | No | No | No | No | No |
| [3-(2,3-epoxypropoxy)propyl] trimethoxysilane | No | No | No | No | No | No | No |
| Zinc oxide | No | No | No | No | No | No | No |
| Reaction mass of Bis | No | No | No | No | No | No | No |

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| No | No | No | No | No | No | No |
|----|----|-------|----------|----------|-------------|----------------|
| | No | No No | No No No | No No No | No No No No | No No No No No |

Mobility : Not available.

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

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

| Product/ingredient name | PBT | P | В | T | vPvB | νP | vB |
|------------------------------|-----|-----|-----|-----|------|-----|-----|
| titanium dioxide | No | No | No | No | No | No | No |
| Xylene | No | N/A | No | Yes | No | N/A | No |
| n-Butyl acetate | No | N/A | N/A | No | N/A | N/A | N/A |
| Ethylbenzene | N/A | N/A | N/A | Yes | N/A | N/A | N/A |
| Trizinc bis(orthophosphate) | No | No | No | No | No | No | No |
| [3-(2,3-epoxypropoxy)propyl] | No | N/A | N/A | No | N/A | N/A | N/A |
| trimethoxysilane | | | | | | | |
| Zinc oxide | No | No | No | No | No | No | No |
| Reaction mass of Bis | N/A | N/A | N/A | Yes | N/A | N/A | N/A |
| (1,2,2,6,6-pentamethyl- | | | | | | | |
| 4-piperidyl) sebacate and | | | | | | | |
| Methyl | | | | | | | |
| 1,2,2,6,6-pentamethyl- | | | | | | | |
| 4-piperidyl sebacate | | | | | | | |
| toluene | No | N/A | No | Yes | No | N/A | No |

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

| Product/ingredient name | PBT | P | В | T | vPvB | νP | vB | |
|------------------------------|-----|----|----|----|------|----|----|--|
| titanium dioxide | No | No | No | No | No | No | No | |
| Xylene | 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 | |
| Trizinc bis(orthophosphate) | No | No | No | No | No | No | No | |
| [3-(2,3-epoxypropoxy)propyl] | No | No | No | No | No | No | No | |
| trimethoxysilane | | | | | | | | |
| Zinc oxide | No | No | No | No | No | No | No | |
| Reaction mass of Bis | No | No | No | No | No | No | No | |
| (1,2,2,6,6-pentamethyl- | | | | | | | | |
| 4-piperidyl) sebacate and | | | | | | | | |
| Methyl | | | | | | | | |
| 1,2,2,6,6-pentamethyl- | | | | | | | | |
| 4-piperidyl sebacate | | | | | | | | |
| toluene | No | No | No | No | No | No | No | |

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

12.6 Endocrine disrupting properties

Not available.

Conclusion/Summary [Product]

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

12.7 Other adverse effects

No known significant effects or critical hazards.

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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.

Hazardous waste

European waste catalogue (EWC)

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

: 080111*, 200127*

Packaging

Methods of disposal

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

Special precautions

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

SECTION 14: Transport information

| | ADR/RID | ADN | IMDG | IATA |
|------------------------------------|---------|--------|--|--|
| 14.1 UN number or ID number | UN1263 | UN1263 | UN1263 | UN1263 |
| 14.2 UN proper shipping name | PAINT | PAINT | PAINT (trizinc bis (orthophosphate), zinc oxide) | PAINT |
| 14.3 Transport hazard class(es) | 3 | 3 | 3 | 3 |
| 14.4 Packing group | III | III | III | III |
| 14.5 Environmental hazards | Yes. | Yes. | Yes. | Yes. The environmentally hazardous substance mark is not required. |

Additional information

ADR/RID

<u>Viscous liquid exception</u> This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 according to 2.2.3.1.5.2.

Tunnel code (D/E)

ADN

: <u>Viscous liquid exception</u> This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 according to 2.2.3.1.5.2.

IMDG

Viscous liquid exception This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 according to 2.3.2.5.

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IATA

: The environmentally hazardous substance mark may appear if required by other transportation regulations.

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

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

bulk according to IMO instruments

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 COMBI 800-500 | ≥90 | 3 |
| toluene | ≤0.3 | 48 |

Labelling ŧ

Other EU regulations

Industrial emissions : Not listed

(integrated pollution prevention and control) -

: Not listed **Industrial emissions**

(integrated pollution prevention and control) -

Water

: Not applicable. **Explosive precursors** 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 E2

National regulations

Austria

Limitation of the use of

organic solvents

: Permitted.

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SECTION 15: Regulatory information

Belgium

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

| Ingredient name | Status |
|-----------------|--------|
| Sílice Sílice | 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 |
|-----------------|-------------------|-------------------|
| tranium dioxide | Listed | - |
| Ethylbenzene | Listed | - |

MAL-code : 3-3

Protection based on MAL

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

General: Gloves must be worn for all work that may result in soiling. Apron/coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required.

In all spraying operations in which there is return spray, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.

MAL-code: 3-3

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

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

During downtimes, cleaning and repair in closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents. When using scraper or knife, brush, roller, etc, for pre- and post-treatments in cabins or booths of the existing* facility type, if the operator is inside the spray zone.

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

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

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

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

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

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

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

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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

: Xylene Social Security Code, RG 4bis, RG 84

Articles L 461-1 to L 461-7 n-Butyl acetate **RG 84** Ethylbenzene **RG 84**

toluene RG 4bis, RG 84

Reinforced medical surveillance

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

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 |
| E2 | 1.3.2 |

Hazard class for water : 2

Technical instruction on air quality control (TA Luft)

| Number [Class] | Description | % |
|----------------|----------------------------|-------|
| 5 .2.1 | Total dust | 66.2 |
| 5.2.2 [III] | Dusty inorganic substances | 0.022 |
| 5.2.5 | Organic substances | 29.3 |
| 5.2.5 [I] | Organic substances | 26.7 |
| 5.2.10 | Soil polluting substances | 3.8 |

Italy

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 yleen | - | - | - | Development 2 | - |
| hydrocarbon, C9-C11, n-alkane, iso-alkane, cyclic, containing <2% of aromatics, < 0,1% of benzene, < 1% of n- hexane and < 0,5 % of aromatic hydrocarbons | Listed | Listed | - | - | - |
| tolueen | - | - | - | Development 2 | - |

Water Discharge Policy

(ABM)

: Z(1) Non biodegradable substances with hazardous properties for humans and the environment (carcinogenicity/ mutagenicity/ reprotoxicity/ bioacumulative potential/

toxicity or persistence). Decontamination effort: Z

Norway

Sweden

Flammable liquid class : 2a

(SRVFS 2005:10)

Switzerland

VOC content : VOC (w/w): 26.2%

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)

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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SECTION 16: Other information

| 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 RE 2, H373 | Calculation method |
| Aquatic Chronic 2, H411 | Calculation method |

Full text of abbreviated H statements

| H225 | Highly flammable liquid and vapour. |
|--------|--|
| H226 | Flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| 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. |
| H361d | Suspected of damaging the unborn child. |
| 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. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

Full text of classifications [CLP/GHS]

| 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 |
| Asp. Tox. 1 | ASPIRATION HAZARD - Category 1 |
| Carc. 2 | CARCINOGENICITY - Category 2 |
| Eye Dam. 1 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 |
| Eye Irrit. 2 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 |
| Flam. Liq. 2 | FLAMMABLE LIQUIDS - Category 2 |
| Flam. Liq. 3 | FLAMMABLE LIQUIDS - Category 3 |
| Repr. 2 | REPRODUCTIVE TOXICITY - Category 2 |
| 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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Notice to reader

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

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