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

SAFETY DATA SHEET



TEKNODUR 0050 - All variants

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

1.1 Product identifier

Product name : TEKNODUR 0050 - All variants

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

1.3 Details of the supplier of the safety data sheet

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

National contact

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

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number: In an emergency, call 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

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

Flam. Liq. 3, H226 STOT SE 3, H336 Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms



| Signal word | : Warning |
|--------------------------------|---|
| Hazard statements | H226 - Flammable liquid and vapour. H336 - May cause drowsiness or dizziness. H412 - Harmful to aquatic life with long lasting effects. |
| Precautionary statements | |
| Prevention | P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273 - Avoid release to the environment. P261 - Avoid breathing vapour. |
| Response | : P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell. |
| Storage | : P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. |
| Disposal | : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| Date of issue/Date of revision | : 02/02/2024 Date of previous issue : 02/02/2024 Version : 14 1/35 |

SECTION 2: Hazards identification

| Hazardous ingredients | 1 | Contains: n-Butyl acetate; Solvent naphtha (petroleum), light aromatic and 2-Methoxy-1-methylethyl acetate |
|---|---|--|
| 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 Product/ingredient name | : Mixture | % | Classification | Specific Conc. Limits, M-factors and ATEs | Туре |
|--|---|------------------|--|---|---------|
| titanium dioxide | REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7 | ≥25 - ≤50 | Carc. 2, H351 (inhalation) | - | [1] [*] |
| n-Butyl acetate | REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1 | ≥10 - ≤25 | Flam. Liq. 3, H226 STOT SE 3, H336 EUH066 | - | [1] [2] |
| Xylene | REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9 | <10 | Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 (oral, inhalation) Asp. Tox. 1, H304 | ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/ I | [1] [2] |
| Solvent naphtha (petroleum), light aromatic | REACH #: 01-2119455851-35 EC: 265-199-0 CAS: 64742-95-6 Index: 649-356-00-4 | ≤9.3 | Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066 | - | [1] |
| 2-Methoxy-1-methylethyl acetate | REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7 | ≤5 | Flam. Liq. 3, H226 STOT SE 3, H336 | - | [1] [2] |
| Ethylbenzene | REACH #: 01-2119489370-35 EC: 202-849-4 | ≤3 | Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 | ATE [Inhalation (vapours)] = 11 mg/ I | [1] [2] |
| Date of issue/Date of revision TEKNODUR 0050 - All variar | | e of previous is | sue : 02/02/2024 | Version : 14 Label No :7692 | 2/35 |

| SECTION 3: Composition/information on ingredients | | | | | |
|---|--------------------------------------|--|--|--|--|
| | CAS: 100-41-4 Index: 601-023-00-4 | (hearing organs) (oral, inhalation) Asp. Tox. 1, H304 See Section 16 for the full text of the H statements declared above. | | | |

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

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

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

SECTION 4: First aid measures

4.1 Description of first aid measures

| Eye contact | : | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 |
|----------------------------|---|---|
| Inhalation | : | minutes. Get medical attention if irritation occurs. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
| Skin contact | : | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse. |
| Ingestion | : | Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
| Protection of first-aiders | : | No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. |

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms Eye contact : No specific data. Inhalation : Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness Skin contact : No specific data. Ingestion : No specific data.

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SECTION 4: First aid measures

| Notes to physician | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
|------------------------------|---|
| Specific treatments | : No specific treatment. |
| SECTION 5: Firefig | hting measures |
| 5.1 Extinguishing media | |
| Suitable extinguishing media | : Use dry chemical, CO ₂ , water spray (fog) or foam. |
| | |

Unsuitable extinguishing : Do not use water jet. media

5.2 Special hazards arising from the substance or mixture

| Hazards from the substance or mixture | : | Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. |
|---|---|--|
| Hazardous combustion products | : | Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides metal oxide/oxides |
| 5.3 Advice for firefighters | | |
| Special protective actions for fire-fighters | : | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. |
| Special protective equipment for fire-fighters | : | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. |

SECTION 6: Accidental release measures

| 6.1 Personal precautions, pro | ote | ctive equipment and emergency procedures |
|--------------------------------|-----|--|
| For non-emergency personnel | : | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
| For emergency responders | • | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| 6.2 Environmental precautions | : | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. |
| 6.3 Methods and material for | СС | entainment and cleaning up |
| Small spill | : | Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |

SECTION 6: Accidental release measures

| Large spill | : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. |
|---------------------------------|--|
| 6.4 Reference to other sections | : See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information. |

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

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

7.2 Conditions for safe storage, including any incompatibilities

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

Seveso Directive - Reporting thresholds

Danger criteria

| | Notification and MAPP threshold | Safety report threshold |
|-----|---------------------------------|-------------------------|
| P5c | 5000 tonne | 50000 tonne |

7.3 Specific end use(s)

| Recommendations |
|----------------------------|
| Industrial sector specific |
| solutions |

- : Not available.
- : Not available.

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

| Product/ingredient name | Exposure limit values |
|---------------------------------|--|
| n-Butyl acetate | Regulation on Limit Values - MAC (Austria, 4/2021). [Butyl |
| | acetate (all isomers except tert-butyl acetate)] |
| | CEIL: 480 mg/m ³ 15 minutes. |
| | CEIL: 100 ppm 15 minutes. |
| | TWA: 241 mg/m ³ 8 hours. |
| | TWA: 50 ppm 8 hours. |
| Yulono. | |
| Xylene | Regulation on Limit Values - MAC (Austria, 4/2021). [Xylenes |
| | (all isomers)] |
| | PEAK: 442 mg/m ³ , 4 times per shift, 15 minutes. |
| | TWA: 50 ppm 8 hours. |
| | PEAK: 100 ppm, 4 times per shift, 15 minutes. |
| | TWA: 221 mg/m ³ 8 hours. |
| 2-Methoxy-1-methylethyl acetate | Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed |
| | through skin. |
| | TWA: 50 ppm 8 hours. |
| | TWA: 275 mg/m ³ 8 hours. |
| | CEIL: 100 ppm, 8 times per shift, 5 minutes. |
| | CEIL: 550 mg/m ³ , 8 times per shift, 5 minutes. |
| Ethylbenzene | Regulation on Limit Values - MAC (Austria, 4/2021). Absorbe |
| | |
| | through skin. |
| | TWA: 100 ppm 8 hours. |
| | TWA: 440 mg/m ³ 8 hours. |
| | CEIL: 200 ppm, 8 times per shift, 5 minutes. |
| | CEIL: 880 mg/m ³ , 8 times per shift, 5 minutes. |
| n-Butyl acetate | Limit values (Belgium, 5/2021). [butyl acetate, all isomers] |
| - Butyr doolato | STEL: 712 mg/m ³ 15 minutes. |
| | STEL: 150 ppm 15 minutes. |
| | |
| | TWA: 238 mg/m ³ 8 hours. |
| | TWA: 50 ppm 8 hours. |
| Kylene | Limit values (Belgium, 5/2021). [Xylene] Absorbed through |
| | skin. |
| | TWA: 50 ppm 8 hours. |
| | TWA: 221 mg/m ³ 8 hours. |
| | STEL: 100 ppm 15 minutes. |
| | STEL: 442 mg/m ³ 15 minutes. |
| 2-Methoxy-1-methylethyl acetate | Limit values (Belgium, 5/2021). Absorbed through skin. |
| | TWA: 50 ppm 8 hours. |
| | TWA: 275 mg/m ³ 8 hours. |
| | STEL: 100 ppm 15 minutes. |
| | |
| Thulbanzana | STEL: 550 mg/m ³ 15 minutes. |
| Ethylbenzene | Limit values (Belgium, 5/2021). Absorbed through skin. |
| | TWA: 20 ppm 8 hours. |
| | TWA: 87 mg/m³ 8 hours. |
| | STEL: 125 ppm 15 minutes. |
| | STEL: 551 mg/m ³ 15 minutes. |
| n-Butyl acetate | Ministry of Labour and Social Policy and the Ministry of |
| | Health - Ordinance No 13/2003. (Bulgaria, 6/2021). |
| | |
| | Limit value 8 hours: 241 mg/m ³ 8 hours. |
| | Limit value 15 min: 723 mg/m³ 15 minutes. |
| | Limit value 15 min: 150 ppm 15 minutes. |
| | Limit value 8 hours: 50 ppm 8 hours. |
| (ylene | Ministry of Labour and Social Policy and the Ministry of |
| | Health - Ordinance No 13/2003. (Bulgaria, 6/2021). [Xylene |
| | (mixture of isomers), pure] Absorbed through skin. |
| | Limit value 8 hours: 221 mg/m ³ 8 hours. |
| | Limit value 15 min: 442 mg/m ³ 15 minutes. |
| | |

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SECTION 8: Exposure controls/personal protection Limit value 15 min: 100 ppm 15 minutes. Limit value 8 hours: 50 ppm 8 hours. Ministry of Labour and Social Policy and the Ministry of 2-Methoxy-1-methylethyl acetate Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed through skin. Limit value 8 hours: 275 mg/m³ 8 hours. Limit value 15 min: 550 mg/m³ 15 minutes. Limit value 15 min: 100 ppm 15 minutes. Limit value 8 hours: 50 ppm 8 hours. Ethylbenzene Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed through skin. Limit value 8 hours: 435 mg/m³ 8 hours. Limit value 15 min: 545 mg/m³ 15 minutes. Ministry of Economy, Labour and Entrepreneurship ELV/ n-Butyl acetate STELV (Croatia, 1/2021). STELV: 723 mg/m³ 15 minutes. STELV: 150 ppm 15 minutes. ELV: 241 mg/m³ 8 hours. ELV: 50 ppm 8 hours. Ministry of Economy, Labour and Entrepreneurship ELV/ **Xylene** STELV (Croatia, 1/2021). [xylene (all isomers)] Absorbed through skin. STELV: 442 mg/m³ 15 minutes. STELV: 100 ppm 15 minutes. ELV: 221 mg/m³ 8 hours. ELV: 50 ppm 8 hours. Solvent naphtha (petroleum), light aromatic Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia). ELV: 100 ppm ELV: 400 mg/m³ 2-Methoxy-1-methylethyl acetate Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). Absorbed through skin. STELV: 550 mg/m³ 15 minutes. STELV: 100 ppm 15 minutes. ELV: 275 mg/m³ 8 hours. ELV: 50 ppm 8 hours. Ethylbenzene Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). Absorbed through skin. STELV: 884 mg/m³ 15 minutes. STELV: 200 ppm 15 minutes. ELV: 442 mg/m³ 8 hours. ELV: 100 ppm 8 hours. Department of labour inspection (Cyprus, 7/2021). n-Butyl acetate

Xylene

2-Methoxy-1-methylethyl acetate

Ethylbenzene

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through skin.

through skin.

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

STEL: 100 ppm 15 minutes. STEL: 442 mg/m³ 15 minutes.

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

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

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

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

mixed isomers] Absorbed through skin.

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

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

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

| | TWA: 442 mg/m ³ 8 hours. STEL: 200 ppm 15 minutes. |
|--|---|
| n-Butyl acetate | Government regulation of Czech Republic PEL/NPK-P (Czech |
| | Republic, 10/2022). |
| | TWA: 241 mg/m³ 8 hours. STEL: 723 mg/m³ 15 minutes. |
| | STEL: 149.661 ppm 15 minutes. |
| | TWA: 49.887 ppm 8 hours. |
| (ylene | Government regulation of Czech Republic PEL/NPK-P (Czecl |
| | Republic, 10/2022). [xylene, technical mixture of isomers and |
| | all isomers] Absorbed through skin. |
| | TWA: 200 mg/m ³ 8 hours. |
| | TWA: 45.4 ppm 8 hours. STEL: 400 mg/m ³ 15 minutes. |
| | STEL: 90.8 ppm 15 minutes. |
| olvent naphtha (petroleum), light aromatic | Government regulation of Czech Republic PEL/NPK-P (Czech |
| | Republic, 10/2022). [Nafta solvents] |
| | TWA: 200 mg/m ³ 8 hours. |
| | STEL: 1000 mg/m ³ 15 minutes. |
| -Methoxy-1-methylethyl acetate | Government regulation of Czech Republic PEL/NPK-P (Czech |
| | Republic, 10/2022). Absorbed through skin. |
| | TWA: 270 mg/m ³ 8 hours. TWA: 49.14 ppm 8 hours. |
| | STEL: 550 mg/m^3 15 minutes. |
| | STEL: 100.1 ppm 15 minutes. |
| thylbenzene | Government regulation of Czech Republic PEL/NPK-P (Czec |
| - | Republic, 10/2022). Absorbed through skin. |
| | TWA: 200 mg/m ³ 8 hours. |
| | TWA: 45.4 ppm 8 hours. |
| | STEL: 500 mg/m ³ 15 minutes. |
| Dutul acetata | STEL: 113.5 ppm 15 minutes. |
| -Butyl acetate | Working Environment Authority (Denmark, 6/2022). [Butyl acetate, all isomers] |
| | TWA: 50 ppm 8 hours. |
| | TWA: 241 mg/m ³ 8 hours. |
| | STEL: 723 mg/m ³ 15 minutes. |
| | STEL: 150 ppm 15 minutes. |
| (ylene | Working Environment Authority (Denmark, 6/2022). [Xylenes, |
| | all isomers] Absorbed through skin. |
| | TWA: 25 ppm 8 hours. TWA: 109 mg/m ³ 8 hours. |
| | STEL: 442 mg/m ³ 15 minutes. |
| | STEL: 100 ppm 15 minutes. |
| -Methoxy-1-methylethyl acetate | Working Environment Authority (Denmark, 6/2022). |
| | [2-Methoxy-1-methylethyl acetate] Absorbed through skin. |
| | TWA: 50 ppm 8 hours. |
| | TWA: 275 mg/m ³ 8 hours. |
| | STEL: 550 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. |
| thylbenzene | Working Environment Authority (Denmark, 6/2022). Absorbed |
| | through skin. Carcinogen. |
| | TWA: 50 ppm 8 hours. |
| | TWA: 217 mg/m ³ 8 hours. |
| | STEL: 434 mg/m ³ 15 minutes. |
| D. f. L. s. f. f. | STEL: 100 ppm 15 minutes. |
| -Butyl acetate | Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). |
| | STEL: 150 ppm 15 minutes. |
| | STEL: 723 mg/m ³ 15 minutes. |
| | TWA: 50 ppm 8 hours. |
| | TWA: 241 mg/m ³ 8 hours. |
| (ylene | Occupational exposure limits, Regulation No. 293 (Estonia, |
| | 12/2022). [Xylenes] Absorbed through skin. |

| • | personal protection |
|--|---|
| | TWA: 50 ppm 8 hours. |
| | STEL: 100 ppm 15 minutes. |
| | STEL: 450 mg/m ³ 15 minutes. |
| | TWA: 200 mg/m ³ 8 hours. |
| 2-Methoxy-1-methylethyl acetate | Occupational exposure limits, Regulation No. 293 (Estonia, |
| | 12/2022). Absorbed through skin. Skin sensitiser. |
| | STEL: 100 ppm 15 minutes. |
| | STEL: 550 mg/m ³ 15 minutes. |
| | TWA: 275 mg/m ³ 8 hours. |
| | TWA: 50 ppm 8 hours. |
| Ethylbenzene | Occupational exposure limits, Regulation No. 293 (Estonia, |
| ztryibenzene | 12/2022). Absorbed through skin. Skin sensitiser. |
| | TWA: 442 mg/m ³ 8 hours. |
| | TWA: 100 ppm 8 hours. |
| | STEL: 884 mg/m ³ 15 minutes. |
| | STEL: 200 ppm 15 minutes. |
| n-Butyl acetate | EU OEL (Europe, 1/2022). Notes: list of indicative |
| , , | occupational exposure limit values |
| | STEL: 150 ppm 15 minutes. |
| | STEL: 723 mg/m³ 15 minutes. |
| | |
| | TWA: 241 mg/m ³ 8 hours. |
| | TWA: 50 ppm 8 hours. |
| Xylene | EU OEL (Europe, 1/2022). [xylene, mixed isomers pure] |
| | Absorbed through skin. Notes: list of indicative occupation |
| | exposure limit values |
| | TWA: 50 ppm 8 hours. |
| | TWA: 221 mg/m ³ 8 hours. |
| | STEL: 100 ppm 15 minutes. |
| | |
| | STEL: 442 mg/m ³ 15 minutes. |
| 2-Methoxy-1-methylethyl acetate | EU OEL (Europe, 1/2022). Absorbed through skin. Notes: lis |
| | of indicative occupational exposure limit values |
| | TWA: 50 ppm 8 hours. |
| | TWA: 275 mg/m ³ 8 hours. |
| | STEL: 100 ppm 15 minutes. |
| | STEL: 550 mg/m ³ 15 minutes. |
| Ethylbenzene | EU OEL (Europe, 1/2022). Absorbed through skin. Notes: lis |
| | of indicative occupational exposure limit values |
| | |
| | TWA: 100 ppm 8 hours. |
| | TWA: 442 mg/m ³ 8 hours. |
| | STEL: 200 ppm 15 minutes. |
| | STEL: 884 mg/m ³ 15 minutes. |
| n-Butyl acetate | Institute of Occupational Health, Ministry of Social Affairs |
| | (Finland, 10/2021). |
| | TWA: 150 ppm 8 hours. |
| | |
| | TWA: 720 mg/m ³ 8 hours. |
| | STEL: 200 ppm 15 minutes. |
| | STEL: 960 mg/m ³ 15 minutes. |
| Xylene | Institute of Occupational Health, Ministry of Social Affairs |
| | (Finland, 10/2021). [Xylenes] Absorbed through skin. |
| | STEL: 440 mg/m ³ 15 minutes. |
| | TWA: 220 mg/m ³ 8 hours. |
| | TWA: 50 ppm 8 hours. |
| | STEL: 100 ppm 15 minutes. |
| | Institute of Occupational Health, Ministry of Social Affairs |
| Solvent nanhtha (netroleum), light aromatic | |
| Solvent naphtha (petroleum), light aromatic | (Finland, 10/2020). |
| Solvent naphtha (petroleum), light aromatic | $T_{M/A}$, 100 m m/m ³ 0 k - ····- |
| | TWA: 100 mg/m ³ 8 hours. |
| | Institute of Occupational Health, Ministry of Social Affairs |
| Solvent naphtha (petroleum), light aromatic 2-Methoxy-1-methylethyl acetate | Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). Absorbed through skin. |
| | Institute of Occupational Health, Ministry of Social Affairs |
| | Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). Absorbed through skin. TWA: 50 ppm 8 hours. |
| | Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 270 mg/m ³ 8 hours. |
| | Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 270 mg/m ³ 8 hours. STEL: 100 ppm 15 minutes. |
| 2-Methoxy-1-methylethyl acetate | Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 270 mg/m ³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m ³ 15 minutes. |
| | Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 270 mg/m ³ 8 hours. STEL: 100 ppm 15 minutes. |

| ECTION 8: Exposure controls/p | |
|---|--|
| | TWA: 50 ppm 8 hours. |
| | TWA: 220 mg/m ³ 8 hours. |
| | STEL: 200 ppm 15 minutes. |
| | STEL: 880 mg/m ³ 15 minutes. |
| n-Butyl acetate | Ministry of Labor (France, 10/2022). Notes: Binding regulator limit values (article R. 4412-149 of the Labor Code) |
| | TWA: 50 ppm 8 hours. |
| | TWA: 241 mg/m ³ 8 hours. |
| | STEL: 150 ppm 15 minutes. |
| | STEL: 723 mg/m ³ 15 minutes. |
| (ylene | Ministry of Labor (France, 10/2022). [xylenes, mixed isomers, |
| | pure] Absorbed through skin. Notes: Binding regulatory limit |
| | values (article R. 4412-149 of the Labor Code) |
| | STEL: 442 mg/m ³ 15 minutes. |
| | STEL: 100 ppm 15 minutes. |
| | TWA: 221 mg/m ³ 8 hours. |
| Nelvent nenkthe (netveleven) linkt evenetie | TWA: 50 ppm 8 hours. |
| Solvent naphtha (petroleum), light aromatic | Ministry of Labor (France, 10/2022). [hydrocarbons C6-C12] |
| | Notes: Permissible limit values (circulars) |
| | TWA: 1000 mg/m ³ 8 hours. Form: Vapour |
| Matheway 1 meeths dethad exertete | STEL: 1500 mg/m ³ 15 minutes. Form: Vapour |
| -Methoxy-1-methylethyl acetate | Ministry of Labor (France, 10/2022). Absorbed through skin. |
| | Notes: Binding regulatory limit values (article R. 4412-149 of |
| | the Labor Code) |
| | STEL: 550 mg/m ³ 15 minutes. |
| | STEL: 100 ppm 15 minutes. |
| | TWA: 275 mg/m ³ 8 hours. |
| thulhanzana | TWA: 50 ppm 8 hours. |
| thylbenzene | Ministry of Labor (France, 10/2022). Absorbed through skin. |
| | Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) |
| | |
| | TWA: 20 ppm 8 hours. |
| | TWA: 88.4 mg/m ³ 8 hours. |
| | STEL: 442 mg/m ³ 15 minutes. |
| | STEL: 100 ppm 15 minutes. |
| -Butyl acetate | DFG MAC-values list (Germany, 7/2022). |
| | TWA: 100 ppm 8 hours. |
| | PEAK: 200 ppm, 4 times per shift, 15 minutes. |
| | TWA: 480 mg/m ³ 8 hours. |
| | PEAK: 960 mg/m ³ , 4 times per shift, 15 minutes. |
| | TRGS 900 OEL (Germany, 6/2022). |
| | TWA: 300 mg/m ³ 8 hours. |
| | TWA: 62 ppm 8 hours. |
| | PEAK: 600 mg/m ³ 15 minutes. |
| Mana | PEAK: 124 ppm 15 minutes. |
| ylene | TRGS 900 OEL (Germany, 6/2022). [xylene] Absorbed throug skin. |
| | TWA: 220 mg/m ³ 8 hours. |
| | PEAK: 440 mg/m ³ 15 minutes. |
| | TWA: 50 ppm 8 hours. |
| | PEAK: 100 ppm 15 minutes. |
| | DFG MAC-values list (Germany, 7/2022). [Xylene (all isomers) |
| | Absorbed through skin. |
| | TWA: 50 ppm 8 hours. |
| | PEAK: 100 ppm, 4 times per shift, 15 minutes. |
| | TWA: 220 mg/m ³ 8 hours. |
| | PEAK: 440 mg/m ³ , 4 times per shift, 15 minutes. |
| -Methoxy-1-methylethyl acetate | TRGS 900 OEL (Germany, 6/2022). |
| | TWA: 270 mg/m ³ 8 hours. |
| | PEAK: 270 mg/m ³ 15 minutes. |
| | TWA: 50 ppm 8 hours. |
| | PEAK: 50 ppm 15 minutes. |
| | DFG MAC-values list (Germany, 7/2022). |
| | |
| | TWA: 50 ppm 8 hours. |

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SECTION 8: Exposure controls/personal protection PEAK: 50 ppm, 4 times per shift, 15 minutes. TWA: 270 ma/m³ 8 hours. PEAK: 270 mg/m³, 4 times per shift, 15 minutes. Ethylbenzene TRGS 900 OEL (Germany, 6/2022). Absorbed through skin. TWA: 88 mg/m³ 8 hours. PEAK: 176 mg/m³ 15 minutes. TWA: 20 ppm 8 hours. PEAK: 40 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). Absorbed through skin. PEAK: 40 ppm, 4 times per shift, 15 minutes. PEAK: 176 mg/m³, 4 times per shift, 15 minutes. TWA: 88 mg/m³ 8 hours. TWA: 20 ppm 8 hours. n-Butyl acetate Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. **Xylene** Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). [Xylenes (all isomers)] Absorbed through skin. TWA: 100 ppm 8 hours. TWA: 435 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 650 mg/m³ 15 minutes. Presidential Decree 307/1986: Occupational exposure limit 2-Methoxy-1-methylethyl acetate values (Greece, 9/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 275 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m³ 15 minutes. Ethylbenzene Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). TWA: 100 ppm 8 hours. TWA: 435 mg/m³ 8 hours. STEL: 125 ppm 15 minutes. STEL: 545 mg/m³ 15 minutes. n-Butyl acetate 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Skin sensitiser. Inhalation sensitiser. TWA: 241 mg/m³ 8 hours. PEAK: 723 mg/m³ 15 minutes. PEAK: 150 ppm 15 minutes. TWA: 50 ppm 8 hours. **Xylene** 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). [xylene, mixture of isomers] Absorbed through skin. TWA: 221 mg/m³ 8 hours. PEAK: 442 mg/m³ 15 minutes. PEAK: 100 ppm 15 minutes. TWA: 50 ppm 8 hours. 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). 2-Methoxy-1-methylethyl acetate TWA: 275 mg/m³ 8 hours. PEAK: 550 mg/m³ 15 minutes. PEAK: 100 ppm 15 minutes. TWA: 50 ppm 8 hours. Ethylbenzene 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed through skin. Skin sensitiser. Inhalation sensitiser. TWA: 442 mg/m³ 8 hours. PEAK: 884 mg/m³ 15 minutes. PEAK: 200 ppm 15 minutes. TWA: 100 ppm 8 hours.

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| SECTION 8: Exposure controls | /personal protection |
|---|---|
| n-Butyl acetate | Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). |
| | [butyl acetate, all isomers] |
| | TWA: 241 mg/m ³ 8 hours. |
| | TWA: 50 ppm 8 hours. |
| | STEL: 723 mg/m ³ 15 minutes. |
| | STEL: 150 ppm 15 minutes. |
| Xylene | Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). |
| | [xylene, all isomers] Absorbed through skin. |
| | STEL: 442 mg/m ³ 15 minutes. |
| | STEL: 100 ppm 15 minutes. |
| | TWA: 109 mg/m ³ 8 hours. |
| 2-Methoxy-1-methylethyl acetate | TWA: 25 ppm 8 hours. Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). |
| | Absorbed through skin. |
| | STEL: 550 mg/m ³ 15 minutes. |
| | STEL: 100 ppm 15 minutes. |
| | TWA: 275 mg/m ³ 8 hours. |
| | TWA: 50 ppm 8 hours. |
| Ethylbenzene | Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). |
| | Absorbed through skin. |
| | STEL: 884 mg/m ³ 15 minutes. |
| | STEL: 200 ppm 15 minutes. |
| | TWA: 200 mg/m ³ 8 hours. |
| | TWA: 50 ppm 8 hours. |
| n-Butyl acetate | NAOSH (Ireland, 5/2021). Notes: EU derived Occupational |
| | Exposure Limit Values |
| | OELV-8hr: 50 ppm 8 hours. |
| | OELV-8hr: 241 mg/m ³ 8 hours. |
| | OELV-15min: 150 ppm 15 minutes. |
| Xylene | OELV-15min: 723 mg/m ³ 15 minutes. NAOSH (Ireland, 5/2021). [xylene mixed isomers] Absorbed |
| Aylerie | through skin. Notes: EU derived Occupational Exposure Limit |
| | Values |
| | OELV-8hr: 50 ppm 8 hours. |
| | OELV-8hr: 221 mg/m ³ 8 hours. |
| | OELV-15min: 100 ppm 15 minutes. |
| | OELV-15min: 442 mg/m ³ 15 minutes. |
| 2-Methoxy-1-methylethyl acetate | NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU |
| | derived Occupational Exposure Limit Values |
| | OELV-8hr: 50 ppm 8 hours. |
| | OELV-8hr: 275 mg/m ³ 8 hours. |
| | OELV-15min: 100 ppm 15 minutes. |
| | OELV-15min: 550 mg/m ³ 15 minutes. |
| Ethylbenzene | NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU |
| | derived Occupational Exposure Limit Values OELV-8hr: 100 ppm 8 hours. |
| | OELV-8hr: 442 mg/m ³ 8 hours. |
| | OELV-15min: 200 ppm 15 minutes. |
| | OELV-15min: 884 mg/m ³ 15 minutes. |
| n-Butyl acetate | EU OEL (Europe, 1/2022). Notes: list of indicative |
| | occupational exposure limit values |
| | STEL: 150 ppm 15 minutes. |
| | STEL: 723 mg/m ³ 15 minutes. |
| | TWA: 241 mg/m ³ 8 hours. |
| | TWA: 50 ppm 8 hours. |
| Xylene | Legislative Decree No. 819/2008. Title IX. Protection from |
| | chemical agents, carcinogens and mutagens (Italy, 6/2020). |
| | [Xylenes, mixed isomers, pure] Absorbed through skin. |
| | 8 hours: 50 ppm 8 hours. |
| | 8 hours: 221 mg/m ³ 8 hours. |
| | Short Term: 100 ppm 15 minutes. |
| 2 Motheway 1 methydethyd ac stat | Short Term: 442 mg/m ³ 15 minutes. |
| 2-Methoxy-1-methylethyl acetate | Legislative Decree No. 819/2008. Title IX. Protection from |
| | chemical agents, carcinogens and mutagens (Italy, 6/2020). |
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SECTION 8: Exposure controls/personal protection

| SECTION 8: Exposure control | |
|--|--|
| Ethylbenzene | Absorbed through skin. 8 hours: 50 ppm 8 hours. 8 hours: 275 mg/m³ 8 hours. Short Term: 100 ppm 15 minutes. Short Term: 550 mg/m³ 15 minutes. Legislative Decree No. 819/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020). Absorbed through skin. 8 hours: 100 ppm 8 hours. 8 hours: 442 mg/m³ 8 hours. Short Term: 200 ppm 15 minutes. Short Term: 884 mg/m³ 15 minutes. |
| n-Butyl acetate | Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). TWA: 241 mg/m ³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m ³ 15 minutes. TWA: 50 ppm 8 hours. |
| Xylene | Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). [Xylenes] Absorbed through skin. TWA: 221 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m ³ 15 minutes. |
| 2-Methoxy-1-methylethyl acetate | Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 275 mg/m ³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m ³ 15 minutes. |
| Ethylbenzene | Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). Absorbed through skin. TWA: 442 mg/m ³ 8 hours. TWA: 100 ppm 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m ³ 15 minutes. |
| n-Butyl acetate | Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). TWA: 241 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. STEL: 723 mg/m ³ 15 minutes. STEL: 150 ppm 15 minutes. |
| Xylene | Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). [xylene, mixed isomers, pure] Absorbed through skin. STEL: 442 mg/m ³ 15 minutes. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. TWA: 221 mg/m ³ 8 hours. |
| 2-Methoxy-1-methylethyl acetate | Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Absorbed through skin. TWA: 250 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. STEL: 400 mg/m ³ 15 minutes. STEL: 75 ppm 15 minutes. |
| Ethylbenzene | Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Absorbed through skin. TWA: 442 mg/m ³ 8 hours. TWA: 100 ppm 8 hours. STEL: 884 mg/m ³ 15 minutes. STEL: 200 ppm 15 minutes. |
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SECTION 8: Exposure controls/personal protection Grand-Duchy Regulation 2016. Chemical agents. Annex I n-Butyl acetate (Luxembourg, 3/2021). STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 8 hours. **Xylene** Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). [xylenes, mixed isomers, pure] Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 221 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m³ 15 minutes.

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

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

Grand-Duchy Regulation 2016. Chemical agents. Annex I

Grand-Duchy Regulation 2016. Chemical agents. Annex I

(Luxembourg, 3/2021). Absorbed through skin.

(Luxembourg, 3/2021). Absorbed through skin.

EU OEL (Europe, 1/2022). Notes: list of indicative

EU OEL (Europe, 1/2022). [xylene, mixed isomers pure] Absorbed through skin. Notes: list of indicative occupational

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

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

Ministry of Social Affairs and Employment, Legal limit values

Ministry of Social Affairs and Employment, Legal limit values

(Netherlands, 12/2022). [xylenes (all isomers)] Absorbed

of indicative occupational exposure limit values

of indicative occupational exposure limit values

occupational exposure limit values

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

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

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

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

(Netherlands, 12/2022).

through skin.

OEL, 8-h TWA: 241 mg/m³ 8 hours. STEL,15-min: 723 mg/m³ 15 minutes. STEL,15-min: 150 ppm 15 minutes. OEL, 8-h TWA: 50 ppm 8 hours.

OEL, 8-h TWA: 210 mg/m³ 8 hours. STEL,15-min: 442 mg/m³ 15 minutes. STEL,15-min: 100 ppm 15 minutes. OEL, 8-h TWA: 47.5 ppm 8 hours.

2-Methoxy-1-methylethyl acetate

Ethylbenzene

n-Butyl acetate

Xylene

2-Methoxy-1-methylethyl acetate

Ethylbenzene

n-Butyl acetate

Xylene

: 02/02/2024 Date of previous issue

e : 02/02/2024

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| SECTION 8: Exposure contro | • • |
|---------------------------------|---|
| 2-Methoxy-1-methylethyl acetate | Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). |
| | OEL, 8-h TWA: 550 mg/m ³ 8 hours. |
| | OEL, 8-h TWA: 100 ppm 8 hours. |
| Ethylbenzene | Ministry of Social Affairs and Employment, Legal limit values |
| | (Netherlands, 12/2022). Absorbed through skin. |
| | OEL, 8-h TWA: 215 mg/m ³ 8 hours. |
| | STEL,15-min: 430 mg/m ³ 15 minutes. |
| | STEL,15-min: 97.3 ppm 15 minutes. |
| n-Butyl acetate | FOR-2819-1246-4358 (NBAWAY,1722022). |
| | STEL: 723 mg/m ³ 15 minutes. |
| | STEL: 150 ppm 15 minutes. |
| | FOR-2011-12-06-1358 (Norway, 12/2022). Notes: indicative |
| | limit value |
| | TWA: 241 mg/m ³ 8 hours. |
| | TWA: 50 ppm 8 hours. |
| Xylene | FOR-2011-12-06-1358 (Norway, 12/2022). [Xylene, all isomers] |
| - | Absorbed through skin. Notes: indicative limit value |
| | TWA: 25 ppm 8 hours. |
| | TWA: 108 mg/m ³ 8 hours. |
| 2-Methoxy-1-methylethyl acetate | FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through |
| | skin. Notes: indicative limit value |
| | TWA: 50 ppm 8 hours. |
| | TWA: 270 mg/m ³ 8 hours. |
| Ethylbenzene | FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through |
| | skin. Carcinogen. Notes: indicative limit value |
| | TWA: 5 ppm 8 hours. |
| | TWA: 20 mg/m ³ 8 hours. |
| n-Butyl acetate | Regulation of the Minister of Family, Labor and Social Policy |
| | of 18 February 2021, regarding the highest permissible |
| | concentrations and values of agents harmful to health in the |
| | work environment (Journal of Laws 2021, item 325) (Poland, |
| | 2/2021). |
| | TWA: 240 mg/m ³ 8 hours. |
| | STEL: 720 mg/m ³ 15 minutes. |
| Xylene | Regulation of the Minister of Family, Labor and Social Policy |
| | of 18 February 2021, regarding the highest permissible |
| | concentrations and values of agents harmful to health in the |
| | work environment (Journal of Laws 2021, item 325) (Poland, |
| | 2/2021). [xylene – mixed isomers (1,2-, 1,3-, 1,4-)] Absorbed |
| | through skin. |
| | TWA: 100 mg/m ³ 8 hours. |
| | STEL: 200 mg/m ³ 15 minutes. |
| 2-Methoxy-1-methylethyl acetate | Regulation of the Minister of Family, Labor and Social Policy |
| | of 18 February 2021, regarding the highest permissible |
| | concentrations and values of agents harmful to health in the |
| | work environment (Journal of Laws 2021, item 325) (Poland, |
| | 2/2021). Absorbed through skin. |
| | TWA: 260 mg/m ³ 8 hours. |
| | STEL: 520 mg/m ³ 15 minutes. |
| Ethylbenzene | Regulation of the Minister of Family, Labor and Social Policy |
| | of 18 February 2021, regarding the highest permissible |
| | concentrations and values of agents harmful to health in the |
| | work environment (Journal of Laws 2021, item 325) (Poland, |
| | 2/2021). Absorbed through skin. |
| | TWA: 200 mg/m ³ 8 hours. |
| | |
| | STEL: 400 mg/m ³ 15 minutes. |
| | STEL: 400 mg/m ³ 15 minutes. |
| | STEL: 400 mg/m ³ 15 minutes. |
| | STEL: 400 mg/m ³ 15 minutes. |
| | STEL: 400 mg/m ³ 15 minutes. |
| | STEL: 400 mg/m ³ 15 minutes. |
| | STEL: 400 mg/m³ 15 minutes. |

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| n-Butyl acetate | Portuguese Institute of Quality (Portugal, 11/2014). |
|---|--|
| | TWA: 150 ppm 8 hours. |
| Wulana. | STEL: 200 ppm 15 minutes. |
| Xylene | Portuguese Institute of Quality (Portugal, 11/2014). [Xylene] TWA: 100 ppm 8 hours. |
| | STEL: 150 ppm 15 minutes. |
| 2-Methoxy-1-methylethyl acetate | EU OEL (Europe, 1/2022). Absorbed through skin. Notes: lis |
| | of indicative occupational exposure limit values |
| | TWA: 50 ppm 8 hours. |
| | TWA: 275 mg/m ³ 8 hours. |
| | STEL: 100 ppm 15 minutes. |
| | STEL: 550 mg/m ³ 15 minutes. |
| Ethylbenzene | Portuguese Institute of Quality (Portugal, 11/2014). |
| | TWA: 20 ppm 8 hours. |
| n-Butyl acetate | HG 1218/2006, Annex 1, with subsequent modifications and |
| | additions (Romania, 3/2021). |
| | VLA: 241 mg/m ³ 8 hours. VLA: 50 ppm 8 hours. |
| | Short term: 723 mg/m ³ 15 minutes. |
| | Short term: 150 ppm 15 minutes. |
| (ylene | HG 1218/2006, Annex 1, with subsequent modifications and |
| , , | additions (Romania, 3/2021). [Xylene] Absorbed through ski |
| | VLA: 221 mg/m ³ 8 hours. |
| | VLA: 50 ppm 8 hours. |
| | Short term: 442 mg/m ³ 15 minutes. |
| | Short term: 100 ppm 15 minutes. |
| Solvent naphtha (petroleum), light aromatic | HG 1218/2006, Annex 1, with subsequent modifications and |
| | additions (Romania, 3/2021). [Solvent naphtha] Absorbed |
| | through skin. VLA: 100 mg/m ³ 8 hours. |
| | Short term: 200 mg/m³ 15 minutes. |
| 2-Methoxy-1-methylethyl acetate | HG 1218/2006, Annex 1, with subsequent modifications and |
| | additions (Romania, 3/2021). Absorbed through skin. |
| | VLA: $275 \text{ mg/m}^3 8 \text{ hours.}$ |
| | VLA: 50 ppm 8 hours. |
| | Short term: 550 mg/m ³ 15 minutes. |
| | Short term: 100 ppm 15 minutes. |
| Ethylbenzene | HG 1218/2006, Annex 1, with subsequent modifications and |
| | additions (Romania, 3/2021). Absorbed through skin. |
| | VLA: 442 mg/m ³ 8 hours. |
| | VLA: 100 ppm 8 hours. Short term: 884 mg/m ³ 15 minutes. |
| | Short term: 200 ppm 15 minutes. |
| | |
| n-Butyl acetate | Government regulation SR c. 355/2006 (Slovakia, 9/2020). [Butyl acetates] |
| | TWA: 241 mg/m ³ , (Butyl acetates) 8 hours. |
| | TWA: 50 ppm, (Butyl acetates) 8 hours. |
| | STEL: 723 mg/m ³ , (Butyl acetates) 15 minutes. |
| | STEL: 150 ppm, (Butyl acetates) 15 minutes. |
| (ylene | Government regulation SR c. 355/2006 (Slovakia, 9/2020). |
| | [xylene, mixed isomers] Absorbed through skin. |
| | TWA: 221 mg/m ³ , (xylene, mixed isomers) 8 hours. |
| | TWA: 50 ppm, (xylene, mixed isomers) 8 hours. |
| | STEL: 442 mg/m ³ , (xylene, mixed isomers) 15 minutes. |
| 2-Methoxy-1-methylethyl acetate | STEL: 100 ppm, (xylene, mixed isomers) 15 minutes. Government regulation SR c. 355/2006 (Slovakia, 9/2020). |
| -יווטנווטאין- ו-וווטנוויוו מטטנמנט | Absorbed through skin. |
| | TWA: 275 mg/m ³ 8 hours. |
| | TWA: 50 ppm 8 hours. |
| | STEL: 550 mg/m ³ 15 minutes. |
| | STEL: 100 ppm 15 minutes. |
| Ethylbenzene | Government regulation SR c. 355/2006 (Slovakia, 9/2020). |
| | Absorbed through skin. |
| | TWA: 442 mg/m ³ 8 hours. |

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| | TWA: 100 ppm 8 hours. |
|--------------------------------|---|
| | STEL: 884 mg/m ³ 15 minutes. |
| | STEL: 200 ppm 15 minutes. |
| ר-Butyl acetate | Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) |
| | TWA: 241 mg/m ³ 8 hours. |
| | TWA: 50 ppm 8 hours. KTV: 723 mg/m³, 4 times per shift, 15 minutes. |
| | KTV: 150 ppm, 4 times per shift, 15 minutes. |
| (ylene | Regulation on protection of workers from the risks related t |
| (yiene | exposure to chemical substances at work (Slovenia, 5/2021 [xylene (mixture of isomers)] Absorbed through skin. |
| | TWA: 221 mg/m ³ 8 hours. |
| | TWA: 50 ppm 8 hours. |
| | KTV: 442 mg/m ³ , 4 times per shift, 15 minutes. |
| -Methoxy-1-methylethyl acetate | KTV: 100 ppm, 4 times per shift, 15 minutes. Regulation on protection of workers from the risks related t |
| | exposure to chemical substances at work (Slovenia, 5/2021 |
| | Absorbed through skin. |
| | TWA: 275 mg/m ³ 8 hours. |
| | TWA: 50 ppm 8 hours. |
| | KTV: 550 mg/m ³ , 4 times per shift, 15 minutes. |
| thulbanzana | KTV: 100 ppm, 4 times per shift, 15 minutes. |
| thylbenzene | Regulation on protection of workers from the risks related t exposure to chemical substances at work (Slovenia, 5/2021 |
| | Absorbed through skin. |
| | TWA: 442 mg/m ³ 8 hours. |
| | TWA: 100 ppm 8 hours. |
| | KTV: 884 mg/m ³ , 4 times per shift, 15 minutes. |
| | KTV: 200 ppm, 4 times per shift, 15 minutes. |
| -Butyl acetate | National institute of occupational safety and health (Spain, |
| | 4/2022). |
| | TWA: 50 ppm 8 hours. |
| | TWA: 241 mg/m ³ 8 hours. |
| | STEL: 150 ppm 15 minutes. |
| ylene | STEL: 723 mg/m ³ 15 minutes. National institute of occupational safety and health (Spain, |
| yiene | 4/2022). [Xylene, mixture of isomers] Absorbed through ski |
| | TWA: 50 ppm 8 hours. TWA: 221 mg/m ³ 8 hours. |
| | STEL: 100 ppm 15 minutes. |
| | STEL: 442 mg/m ³ 15 minutes. |
| -Methoxy-1-methylethyl acetate | National institute of occupational safety and health (Spain, |
| | 4/2022). Absorbed through skin. |
| | TWA: 50 ppm 8 hours. |
| | TWA: 275 mg/m ³ 8 hours. |
| | STEL: 100 ppm 15 minutes. |
| thylbenzene | STEL: 550 mg/m ³ 15 minutes. National institute of occupational safety and health (Spain, |
| | 4/2022). Absorbed through skin. |
| | TWA: 100 ppm 8 hours. |
| | TWA: 441 mg/m ³ 8 hours. |
| | STEL: 200 ppm 15 minutes. |
| | STEL: 884 mg/m ³ 15 minutes. |
| -Butyl acetate | Work environment authority Regulation 2018:1 (Sweden, 9/2021). [butyl acetate] |
| | TWA: 50 ppm 8 hours. |
| | TWA: 241 mg/m ³ 8 hours. |
| | STEL: 150 ppm 15 minutes. |
| (| STEL: 723 mg/m ³ 15 minutes. |
| (ylene | Work environment authority Regulation 2018:1 (Sweden, |
| | 9/2021). [xylene] Absorbed through skin. TWA: 50 ppm 8 hours. |
| | |

| | TWA: 221 mg/m ³ 8 hours. |
|--------------------------------|--|
| | STEL: 100 ppm 15 minutes. |
| | STEL: 442 mg/m ³ 15 minutes. |
| -Methoxy-1-methylethyl acetate | Work environment authority Regulation 2018:1 (Sweden, |
| | 9/2021). Absorbed through skin. |
| | TWA: 50 ppm 8 hours. |
| | TWA: 275 mg/m ³ 8 hours. |
| | STEL: 100 ppm 15 minutes. |
| | STEL: 550 mg/m ³ 15 minutes. |
| thylbenzene | Work environment authority Regulation 2018:1 (Sweden, |
| | 9/2021). Absorbed through skin. |
| | TWA: 50 ppm 8 hours. |
| | TWA: 220 mg/m ³ 8 hours. |
| | STEL: 200 ppm 15 minutes. |
| | STEL: 884 mg/m ³ 15 minutes. |
| -Butyl acetate | SUVA (Switzerland, 1/2023). |
| | TWA: 50 ppm 8 hours. |
| | TWA: 240 mg/m ³ 8 hours. |
| | STEL: 150 ppm 15 minutes. |
| | STEL: 720 mg/m ³ 15 minutes. |
| (ylene | SUVA (Switzerland, 1/2023). [Xylenes (all isomers)] Absorbed |
| | through skin. |
| | TWA: 50 ppm 8 hours. |
| | TWA: 220 mg/m ³ 8 hours. |
| | STEL: 100 ppm 15 minutes. |
| | STEL: 440 mg/m ³ 15 minutes. |
| -Methoxy-1-methylethyl acetate | SUVA (Switzerland, 1/2023). |
| | TWA: 50 ppm 8 hours. |
| | TWA: 275 mg/m ³ 8 hours. |
| | STEL: 50 ppm 15 minutes. |
| thulbonzono | STEL: 275 mg/m ³ 15 minutes. |
| thylbenzene | SUVA (Switzerland, 1/2023). Absorbed through skin. |
| | TWA: 50 ppm 8 hours. TWA: 220 mg/m ³ 8 hours. |
| | STEL: 50 ppm 15 minutes. |
| | STEL: 220 mg/m ³ 15 minutes. |
| Dutid tot- | - |
| -Butyl acetate | EH40/2005 WELs (United Kingdom (UK), 1/2020). |
| | STEL: 966 mg/m ³ 15 minutes. STEL: 200 ppm 15 minutes. |
| | TWA: 724 mg/m ³ 8 hours. |
| | TWA: 124 mg/m 8 hours. |
| ylene | EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,r |
| ylerie | p- or mixed isomers] Absorbed through skin. |
| | STEL: 441 mg/m ³ 15 minutes. |
| | TWA: 50 ppm 8 hours. |
| | TWA: 220 mg/m ³ 8 hours. |
| | STEL: 100 ppm 15 minutes. |
| -Methoxy-1-methylethyl acetate | EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed |
| | through skin. |
| | STEL: 548 mg/m ³ 15 minutes. |
| | TWA: 50 ppm 8 hours. |
| | TWA: 274 mg/m ³ 8 hours. |
| | STEL: 100 ppm 15 minutes. |
| thylbenzene | EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed |
| | through skin. |
| | STEL: 552 mg/m ³ 15 minutes. |
| | STEL: 125 ppm 15 minutes. |
| | TWA: 100 ppm 8 hours. |
| | TWA: 441 mg/m ³ 8 hours. |
| thyl acetate | EH40/2005 WELs (United Kingdom (UK), 1/2020). |
| - | STEL: 400 ppm 15 minutes. |
| | TWA: 200 ppm 8 hours. |
| | STEL: 1468 mg/m ³ 15 minutes. |
| | TWA: 734 mg/m ³ 8 hours. |

SECTION 8: Exposure controls/personal protection

Biological exposure indices

| BEI Fitness: 1.5 g/l, methylhippuricacid [in urine]. Samplin one year. No exposure indices known. Ethylbenzene Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bugaria, 6/2021) Notes significant skin resorption possible BLV: 2000 mg/g creatinine, mandelic acid and phenylgyo acid - in total [in urine]. Sampling time: after the end of the exposure or the end of the work shift. Xylene Ministry of Economy, Labour and Entrepreneurship ILV (Croatia, 10/2018) (xylene] BEI: 1.5 mg/l, xylene [in blood]. Sampling time: at the end work shift. BEI: 14.13 µmol/l, xylene [in blood]. Sampling time: at the end work shift. BEI: 1.5 mg/l, xylene [in blood]. Sampling time: at the end of the work shift. BEI: 15.0 g/l creatinine, methylhippuric acid [in urine]. Sam time: at the end of the work shift. BEI: 1.5 mg/l, ethylbenzene [in blood]. Sampling time: dur exposure. Ethylbenzene Ministry of Economy, Labour and Entrepreneurship ILV (Croatia, 10/2018) BEI: 1.5 mg/l, ethylbenzene [in blood]. Sampling time: dur exposure. No exposure indices known. Sg/l creatinine, almond acid [in urine]. Sampling time: dur exposure. No exposure indices known. Government regulation of Czech Republic Limit Values Biological Limit values: 1400 mg/g creatinine, methylhipput (in urine]. Sampling time: end of the shift. Ethylbenzene Government regulation of Czech Republic Limit Values Biological Limit values: 1400 mg/g creatinine, methylhipput (in urine]. Sampling time: end of the shift. Biological Limit values: 1400 | Product/ingredient name | Exposure indices |
|---|-------------------------|--|
| Ethylbenzene Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003, (Bulgaria, 6/2021) Notes significant skin resorption possible BLV: 2000 mg/g creatinine, mandelic acid and phenylglyo acid - in total [in urine]. Sampling time: after the end of the exposure or the end of the work shift. Xylene Ministry of Economy, Labour and Entrepreneurship LM (Croatia, 10/2016) [xylene] BEI: 1.5 mg/l, xylene [in blood]. Sampling time: at the end work shift. BEI: 1.6 and/. xylene [in blood]. Sampling time: at the end work shift. BEI: 1.5 mg/l, xylene [in blood]. Sampling time: at the end work shift. BEI: 1.5 mg/l, tylene [in blood]. Sampling time: at the end of the work shift. BEI: 5 dg creatinine, methylhippuric acid [in urine]. Sam time: at the end of the work shift. BEI: 5 dg JO reatinine, methylhippuric acid [in urine]. Sam time: at the end of the work shift. BEI: 5 dg JO reatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift. BEI: 1.5 mg/l, ethylbenzene [in blood]. Sampling time: durexposure. BEI: 1.12 mol/mol creatinine, almond acid [in urine]. Sampling time: exposure. BEI: 1.5 g/g creatinine, almond acid [in urine]. Sampling time: end of the working week No exposure indices known. Xylene Biological Exposure Tests (Czech Republic Limit Values Biological Limit values: 1400 mg/g creatinine, almond acid [in urine]. Sampling time: end of the shift. Biological Limit v | e | BEI Fitness: 1000 μg/l, xylene [in blood]. Sampling time: one yea BEI Fitness: 1.5 g/l, methylhippuricacid [in urine]. Sampling time: |
| Health - Ordinance No 13/2003. (Bujgaria, 6/2021) Notesignificant skin resorption possible BLV: 2000 mg/g creatinine, mandelic acid and phenylglyo acid – in total [in urine]. Sampling time: atter the end of the exposure or the end of the work shift. Xylene Ministry of Economy, Labour and Entrepreneurship ILV (Croatia, 10/2018) [xylene] BEI: 1.5 mg/l, xylene [in blood]. Sampling time: at the end work shift. BEI: 1.5 mg/l, xylene [in blood]. Sampling time: at the end work shift. BEI: 1.5 mg/l, xylene [in blood]. Sampling time: at the end work shift. BEI: 1.5 gg/l, atylene [in blood]. Sampling time: at the end work shift. BEI: 1.5 gg/l, atylene [in blood]. Sampling time: at the end of the work shift. BEI: 1.6 agl/l, atylene [in blood]. Sampling time: at the end of the work shift. Ethylbenzene Ministry of Economy, Labour and Entrepreneurship ILV (Croatia, 10/2018) BEI: 1.5 mg/l, sthylbenzene [in blood]. Sampling time: durexposure. BEI: 1.5 mg/l, athylbenzene [in blood]. Sampling time: exposure. BEI: 1.5 gg/l creatinine, almond acid [in urine]. Samp time time: at the end of the work shift and at the end of the work week. BEI: 1.5 gg/l creatinine, almond acid [in urine]. Sampling time: exposure. No exposure indices known. Ko exposure Tests (Czech Republic Limit Values Biological Exposure Tests (Czech Republic Limit Values Biological Limit values: 140 µmol/mol creatinine, methylhippur [in urine]. Sampling time: end of the shift. Ethylbenzene Government regulation of Czech Republic Limit Value | (posure indices known. | |
| (Croatia, 10/2018) [xylene] BEI: 1.5 mg/l, xylene [in blood]. Sampling time: at the end work shift. BEI: 1.4.3 µmol/l, xylene [in blood]. Sampling time: at the end work shift. BEI: 0.88 mol/mol creatinine, methylhippuric acid [in urine]. 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: 0.88 mol/mol creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift. BEI: 1.5 gg/creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift. Ethylbenzene Ministry of Economy, Labour and Entrepreneurship ILV (Croatia, 10/2018) BEI: 1.5 mg/l, ethylbenzene [in blood]. Sampling time: durexposure. 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 work week. No exposure indices known. Xylene Government regulation of Czech Republic Limit Values Biological Exposure Tests (Czech Republic, 9/2015) [X]: Biological limit values: 1400 µmol/mmol creatinine, methylhipuu [in urine]. Sampling time: end of the shift. Ethylbenzene Government regulation of Czech Republic Limit Values Biological limit values: 1100 µmol/mmol creatinine, almond acid [in urine]. Sampling time: end of the shift. Ethylbenzene Government regulation of Czech Republic, 9/2015) [X]: Biological limit values: 1100 µmol/mmol creatinine, methylhippuu [in urine]. Sampling time: end of the shift. | benzene | BLV: 2000 mg/g creatinine, mandelic acid and phenylglyoxylic acid – in total [in urine]. Sampling time: after the end of the |
| (Croatia, 10/2018) BEI: 1.5 mg/l, ethylbenzene [in blood]. Sampling time: durexposure. BEI: 14.1 µmol/l, ethylbenzene [in blood]. Sampling time: durexposure. 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 work week. BEI: 1.5 g/g creatinine, almond acid [in urine]. Sampling time: durexex. No exposure indices known. Xylene Government regulation of Czech Republic Limit Values Biological Exposure Tests (Czech Republic, 9/2015) [X] Biological limit values: 1200 mg/g creatinine, methylhacid [in urine]. Sampling time: end of the shift. Biological limit values: 1400 mg/g creatinine, methylhippul [in urine]. Sampling time: end of the shift. Biological Exposure Tests (Czech Republic Limit Values Biological limit values: 1400 mg/g creatinine, methylhippul [in urine]. Sampling time: end of the shift. Biological Exposure Tests (Czech Republic Limit Values Biological Limit values: 100 umol/mmol creatinine, almont [in urine]. Sampling time: end of the shift. Biological limit values: 1500 mg/g creatinine, almont [in urine]. Sampling time: end of the shift. Biological limit values: 1500 mg/g creatinine, almont [in urine]. Sampling time: end of the shift. Biological limit values: 1500 mg/g creatinine, almont [in urine]. Sampling time: end of the shift. Biological limit values: 1500 mg/g creatinine, almont acid urine]. Sampling | e | 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 |
| No exposure indices known.XyleneGovernment regulation of Czech Republic Limit Values Biological Exposure Tests (Czech Republic, 9/2015) [X] Biological limit values: 820 µmol/mmol creatinine, methylh acid [in urine]. Sampling time: end of the shift. Biological limit values: 1400 mg/g creatinine, methylhipput [in urine]. Sampling time: end of the shift.EthylbenzeneGovernment regulation of Czech Republic Limit Values Biological limit values: 1400 mg/g creatinine, methylhipput [in urine]. Sampling time: end of the shift.EthylbenzeneGovernment regulation of Czech Republic Limit Values Biological limit values: 1100 µmol/mmol creatinine, almon [in urine]. Sampling time: end of the shift. Biological limit values: 1500 mg/g creatinine, almond acid urine]. Sampling time: end of the shift. Biological limit values: 1500 mg/g creatinine, almond acid urine]. Sampling time: end of the shift. Biological limit values: 1500 mg/g creatinine, almond acid urine]. Sampling time: end of the shift. Biological limit values: 1500 mg/g creatinine, almond acid urine]. Sampling time: end of the shift. Biological limit values: 1500 mg/g creatinine, almond acid urine]. Sampling time: end of the shift. Biological limit values: 1500 mg/g creatinine, almond acid urine]. Sampling time: end of the shift. Biological limit values: 1500 mg/g creatinine, almond acid urine]. Sampling time: end of the shift.No exposure indices known. No exposure indices known.Institute of Occupational Health, Ministry of Social Affa (Finland, 9/2020) [Xylene] BEI: 5 mmol/l, methylhippuricacid [in urine]. Sampling time | Jenzene | 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 |
| XyleneGovernment regulation of Czech Republic Limit Values Biological Exposure Tests (Czech Republic, 9/2015) [X] Biological limit values: 820 µmol/mmol creatinine, methyl acid [in urine]. Sampling time: end of the shift. Biological limit values: 1400 mg/g creatinine, methylhippur [in urine]. Sampling time: end of the shift.EthylbenzeneGovernment regulation of Czech Republic Limit Values Biological Exposure Tests (Czech Republic, 9/2015) Biological limit values: 1400 mg/g creatinine, almond creatinine, almond acid urine]. Sampling time: end of the shift. Biological limit values: 1100 µmol/mmol creatinine, almond acid urine]. Sampling time: end of the shift. Biological limit values: 1500 mg/g creatinine, almond acid urine]. Sampling time: end of the shift. Biological limit values: 1500 mg/g creatinine, almond acid urine]. Sampling time: end of the shift.No exposure indices known. No exposure indices known. XyleneInstitute of Occupational Health, Ministry of Social Affa (Finland, 9/2020) [Xylene] BEI: 5 mmol/l, methylhippuricacid [in urine]. Sampling time | xposure indices known. | |
| Biological Exposure Tests (Czech Republic, 9/2015) Biological limit values: 1100 µmol/mmol creatinine, almon [in urine]. Sampling time: end of the shift. Biological limit values: 1500 mg/g creatinine, almond acid urine]. Sampling time: end of the shift.No exposure indices known. No exposure indices known.Institute of Occupational Health, Ministry of Social Affa (Finland, 9/2020) [Xylene] BEI: 5 mmol/l, methylhippuricacid [in urine]. Sampling time | | Biological limit values: 1400 mg/g creatinine, methylhippuric acid |
| No exposure indices known. No exposure indices known. Xylene Institute of Occupational Health, Ministry of Social Affa (Finland, 9/2020) [Xylene] BEI: 5 mmol/l, methylhippuricacid [in urine]. Sampling time | benzene | 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 |
| No exposure indices known. No exposure indices known. Xylene Institute of Occupational Health, Ministry of Social Affa (Finland, 9/2020) [Xylene] BEI: 5 mmol/l, methylhippuricacid [in urine]. Sampling time | cposure indices known. | |
| Xylene Institute of Occupational Health, Ministry of Social Affa (Finland, 9/2020) [Xylene] BEI: 5 mmol/I, methylhippuricacid [in urine]. Sampling time | opsure indices known. | |
| Xylene Institute of Occupational Health, Ministry of Social Affa (Finland, 9/2020) [Xylene] BEI: 5 mmol/l, methylhippuricacid [in urine]. Sampling time | opsure indices known. | |
| | | BEI: 5 mmol/l, methylhippuricacid [in urine]. Sampling time: at th |
| Ethylbenzene Institute of Occupational Health, Ministry of Social Affa (Finland, 9/2020) | penzene | Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) |

SECTION 8: Exposure controls/personal protection BEI: 5.2 mmol/l. mandelic acid [in urine]. Sampling time: after work shift at the end of the working week or exposure period. No exposure indices known. **Xylene** DFG BEI-values list (Germany, 7/2022) [Xylene (all isomers)] Notes: danger from percutaneous absorption (see p. 211 and p. 228). BEI: 2000 mg/l, methylhippuric acid (toluric acid) (all isomers) [in urine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 2/2022) [Xylene (all isomers)] BEI: 2000 mg/l, methylhippuric acid [in urine]. Sampling time: end of exposure or end of shift. Ethylbenzene DFG BEI-values list (Germany, 7/2022) Notes: danger from percutaneous absorption (see p. 211 and p. 228). BEI: 250 mg/g creatinine, mandelic acid plus phenyl glyoxylic acid [in urine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 2/2022) BEI: 250 mg/g creatinine, mandelic acid plus phenylglyoxylic acid [in urine]. Sampling time: end of exposure or end of shift.

No exposure indices known.

Xylene

Ethylbenzene

No exposure indices known. Xylene

Ethylbenzene

No exposure indices known. No exposure indices known.

No exposure indices known.

No exposure indices known.

No exposure indices known.

: 02/02/2024 Date of previous issue

shift.

ceases.

: 02/02/2024

5/2020. (II. 6.) ITM Decree (Hungary, 12/2022) [xylene] BEI: 1500 mg/g creatinine, methylhippuric acid [in urine].

BEI: 860 µmol/mmol creatinine, methylhippuric acid [in urine].

BEI: 1500 mg/g creatinine, mandelic acid [in urine]. Sampling time:

Sampling time: at the end of the shift.

Sampling time: at the end of the shift.

NAOSH (Ireland, 1/2011) [Xylene]

NAOSH (Ireland, 1/2011)

Sampling time: not critical.

end of shift at end of workweek.

5/2020. (II. 6.) ITM Decree (Hungary, 12/2022)

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

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

screening test if a quantitative test is not practical; or as a

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:

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

confirmatory test if the quantitative test is not specific and the origin of the determinant is in question., ethylbenzene [in endexhaled air].

Version : 14 20/35 Label No :76925

TEKNODUR 0050 - All variants

Date of issue/Date of revision

| • | e controls/personal protection |
|-------------------------------|---|
| No exposure indices known. | |
| No exposure indices known. | |
| No exposure indices known. | |
| Xylene | Portuguese Institute of Quality (Portugal, 11/2014) [Xylenes] BEI: 1.5 g/g creatinine, (o, m, p) -methyl-boronic acids [in urine]. Sampling time: end of shift. |
| Ethylbenzene | Portuguese Institute of Quality (Portugal, 11/2014) BEI: 0.7 g/g creatinine, sum of mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift. |
| Xylene | HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2020) [Xylene] OBLV: 3 g/l, methylhippuric acid [in urine]. Sampling time: end of shift. |
| Ethylbenzene | HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2020) OBLV: 1.5 g/g creatinine, mandelic acid [in urine]. Sampling time: end of the week. |
| Xylene | Government regulation SR c. 355/2006 (Slovakia, 9/2020) [xylene, all isomers] BLV: 781 µmol/mmol creatinine, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift BLV: 1334 mg/g creatinine, sum of 2,3,4-methylhippuroic acids [i urine]. Sampling time: at the end of exposure or work shift. BLV: 10355 µmol/l, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 14.6 µmol/l, xylene [in blood]. Sampling time: at the end of exposure or work shift. BLV: 2000 mg/l, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1.5 mg/l, xylene [in blood]. Sampling time: at the end of exposure or work shift. |
| Ethylbenzene | Government regulation SR c. 355/2006 (Slovakia, 9/2020) BLV: 799 μmol/mmol creatinine, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 7.44 μmol/mmol creatinine, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 1067 mg/g creatinine, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 8.03 mg/g creatinine, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 10590 μmol/l, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long- term exposure: after several work shifts. BLV: 98.6 μmol/l, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 1600 mg/l, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 1600 mg/l, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 1600 mg/l, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 12 mg/l, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. |
| ate of issue/Date of revision | : 02/02/2024 Date of previous issue : 02/02/2024 Version : 14 21/3 |

| Xylene | Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) [xylene (all isomers)] BAT: 2 g/l, methylhippuric acid (all isomers) [in urine]. Sampling time: at the end of the work shift. |
|--|---|
| Ethylbenzene | Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) BAT: 250 mg/g creatinine, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of the work shift. |
| Xylene | National institute of occupational safety and health (Spain, 4/2022) [Xylenes] VLB: 1 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift. |
| Ethylbenzene | National institute of occupational safety and health (Spain, 4/2022) VLB: 700 mg/g creatinine, sum of mandelic acid and acid and phenylglyoxylic acid [in urine]. Sampling time: end of workweek. |
| No exposure indices known. | |
| Xylene | SUVA (Switzerland, 1/2023) [Xylene, all isomers] BEI: 2 g/I, methyl hippuric acid [in urine]. Sampling time: immediately after exposure or after working hours. |
| Ethylbenzene | SUVA (Switzerland, 1/2023) BEI: 600 mg/g creatinine, mandelic acid + phenylglyoxylic acid [ir urine]. Sampling time: immediately after exposure or after working hours. |
| Xylene | EH40/2005 BMGVs (United Kingdom (UK), 8/2018) [Xylene, o-, m-, p- or mixed isomers] BGV: 650 mmol/mol creatinine, methyl hippuric acid [in urine]. Sampling time: post shift. |
| procedures E as va at of (V fc dd | eference should be made to monitoring standards, such as the following: uropean Standard EN 689 (Workplace atmospheres - Guidance for the ssessment of exposure by inhalation to chemical agents for comparison with limit alues and measurement strategy) European Standard EN 14042 (Workplace tmospheres - Guide for the application and use of procedures for the assessment f exposure to chemical and biological agents) European Standard EN 482 Workplace atmospheres - General requirements for the performance of procedures or the measurement of chemical agents) Reference to national guidance pocuments for methods for the determination of hazardous substances will also be |

DNELs/DMELs

| Product/ingredient name | Туре | Exposure | Value | Populatio | n Effects |
|-----------------------------------|----------|------------------------|------------------------|------------|-------------------|
| n-Butyl acetate | DNEL | Short term Oral | 2 mg/kg | General | Systemic |
| - | | | bw/day | population | |
| | DNEL | Long term Oral | 2 mg/kg | General | Systemic |
| | | | bw/day | population | |
| | DNEL | Short term Dermal | 6 mg/kg | General | Systemic |
| | | | bw/day | population | |
| | DNEL | Short term Dermal | 11 mg/kg | Workers | Systemic |
| | | | bw/day | | |
| | DNEL | Long term | 35.7 mg/m ³ | General | Local |
| | | Inhalation | | population | |
| | DNEL | Short term | 300 mg/m ³ | General | Local |
| | | Inhalation | | population | |
| | DNEL | Short term | 300 mg/m ³ | General | Systemic |
| | | Inhalation | | population | |
| | DNEL | Long term | 300 mg/m ³ | Workers | Local |
| | | Inhalation | | | |
| | DNEL | Short term | 600 mg/m³ | Workers | Local |
| | | Inhalation | | | |
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required.

| | DNEL | Short term | 600 mg/m ³ | Workers | Systemic | |
|------------------------------------|-------|--------------------------------|---|-----------------------|----------|--|
| | | Inhalation | Ū | | , | |
| | DNEL | Long term Dermal | 3.4 mg/kg bw/day | General population | Systemic | |
| | DNEL | Long term Dermal | 7 mg/kg bw/day | Workers | Systemic | |
| | DNEL | Long term | 12 mg/m ³ | General | Systemic | |
| | DNEL | Inhalation Long term | 48 mg/m³ | population Workers | Systemic | |
| Xylene | DNEL | Inhalation Long term | 65.3 mg/m ³ | General | Local | |
| | | Inhalation | Ŭ | population | | |
| | DNEL | Short term Inhalation | 260 mg/m ³ | General population | Local | |
| | DNEL | Short term Inhalation | 260 mg/m³ | General population | Systemic | |
| | DNEL | Long term | 221 mg/m³ | Workers | Local | |
| | DNEL | Inhalation Long term Oral | 12.5 mg/ | General | Systemic | |
| | | | kg bw/day | population | | |
| | DNEL | Long term | 65.3 mg/m ³ | General | Systemic | |
| | DNEL | Inhalation Long term Dermal | 125 mg/kg | population General | Systemic | |
| | | | bw/day | population | - | |
| | DNEL | Long term Dermal | 212 mg/kg bw/day | Workers | Systemic | |
| | DNEL | Long term Inhalation | 221 mg/m ³ | Workers | Systemic | |
| | DNEL | Short term | 442 mg/m³ | Workers | Local | |
| | DNEL | Inhalation Short term | 442 mg/m ³ | Workers | Systemic | |
| Solvent naphtha (petroleum), light | DNEL | Inhalation | 0.41 mg/m ³ | General | Systemic | |
| aromatic | DINEL | Long term Inhalation | 0.41 mg/m ⁻ | population | Systemic | |
| aromatic | DNEL | Long term | 1.9 mg/m³ | Workers | Systemic | |
| | DNEL | Inhalation Long term | 178.57 mg/ | | Local | |
| | DNEL | Inhalation Short term | m ³ 640 mg/m ³ | population General | Local | |
| | | Inhalation | | population | | |
| | DNEL | Long term Inhalation | 837.5 mg/ m³ | Workers | Local | |
| | DNEL | Short term Inhalation | 1066.67 | Workers | Local | |
| | DNEL | Short term | mg/m³ 1152 mg/ | General | Systemic | |
| | | Inhalation | m ³ | population | -, | |
| | DNEL | Short term | 1286.4 mg/ | Workers | Systemic | |
| 2 Mathavy 1 mathylathyl aretet | | Inhalation | m^{3} | Conoral | | |
| 2-Methoxy-1-methylethyl acetate | DNEL | Long term Inhalation | 33 mg/m³ | General population | Local | |
| | DNEL | Long term | 33 mg/m³ | General | Systemic | |
| | DNEL | Inhalation Long term Oral | 36 mg/kg | population General | Systemic | |
| | | - | bw/day | population | - | |
| | DNEL | Long term Inhalation | 275 mg/m ³ | Workers | Systemic | |
| | DNEL | Long term Dermal | 320 mg/kg bw/day | General population | Systemic | |
| | DNEL | Short term Inhalation | 550 mg/m ³ | Workers | Local | |
| | DNEL | Long term Dermal | 796 mg/kg | Workers | Systemic | |
| Ethylbenzene | DNEL | Long term Oral | bw/day 1.6 mg/kg | General | Systemic | |
| | DNEL | Long term | bw/day 15 mg/m³ | population General | Systemic | |
| | | Inhalation | | population | | |

| SECTION 8: Exposure controls/personal protection | | | | | | | |
|--|--------------------------|-----------------------|---------|----------|--|--|--|
| DNEL | Long term Inhalation | 77 mg/m³ | Workers | Systemic | | | |
| DNEL | Long term Dermal | 180 mg/kg bw/day | Workers | Systemic | | | |
| DNEL | Short term Inhalation | 293 mg/m ³ | Workers | Local | | | |
| DMEL | Long term Inhalation | 442 mg/m ³ | Workers | Local | | | |
| DMEL | Short term Inhalation | 884 mg/m³ | Workers | Systemic | | | |

PNECs

No PNECs available

| 8.2 Exposure controls | |
|----------------------------------|---|
| Appropriate engineering controls | : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment. |
| Individual protection meas | <u>ures</u> |
| Hygiene measures | : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. |
| Eye/face protection | : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. |
| Skin protection | |
| Hand protection | : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. |
| | Recommendations : Wear suitable gloves tested to EN374. |
| | < 1 hour (breakthrough time): Nitrile gloves. thickness > 0.3 mm |
| | 1 - 4 hours (breakthrough time): polyvinyl alcohol (PVA) thickness > 0.3 mm or 4H / Silver Shield® gloves. |
| | > 8 hours (breakthrough time): Viton® thickness > 0.3 mm gloves |
| | Wash hands before breaks and immediately after handling the product. |
| Body protection | : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods. |
| Other skin protection | Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Respiratory protection | : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. |
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SECTION 8: Exposure controls/personal protection

| | Filter type: A |
|---------------------------------|---|
| | Filter type (spray application): A P |
| Environmental exposure controls | : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. |

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

| Appearance | |
|--|------------------|
| Physical state | : Liquid. |
| Colour | : Various |
| Odour | : Slight |
| Odour threshold | : Not available. |
| Melting point/freezing point | : Not available. |
| Initial boiling point and boiling range | ÷ |

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

| Flammability | : Not available. |
|---------------------------------|------------------------------|
| Lower and upper explosion limit | : Lower: 0.8% Upper: 7.6% |
| Flash point | : Closed cup: 32°C (89.6°F) |

Auto-ignition temperature

| | Ingredient name | °C | °F | Method |
|---|---|------------|------------|-----------|
| | Solvent naphtha (petroleum), light aromatic | 280 to 470 | 536 to 878 | |
| | 2-Methoxy-1-methylethyl acetate | 333 | 631.4 | DIN 51794 |
| D | ecomposition temperature : Not ava | ilable. | | |

| рН | Not available. |
|-----------------------------------|--|
| Viscosity | : Kinematic (40°C): >20.5 mm ² /s |
| Solubility(ies) | : |
| Not available. | |
| Solubility in water | : Not available. |
| Partition coefficient: n-octanol/ | : Not applicable. |

ŝ,

÷

Vapour pressure

water

| | Va | Vapour Pressure at 20°C | | | Vapour pressure at 50°C | | |
|--------------------------------|-------------|-------------------------|----------------|--------------|-------------------------|--------------|--|
| Ingredient name | mm Hg | kPa | Method | mm Hg | kPa | Method | |
| n-Butyl acetate | 11.25096 1. | 1.5 | DIN EN 13016-2 | 2 | | | |
| Ethylbenzene | 9.30076 | 1.2 | | | | | |
| Relative density | : Not | available. | | | | | |
| Density | : 1.5 | g/cm³ | | | | | |
| Vapour density | : Not | available. | | | | | |
| Explosive properties | : Not | available. | | | | | |
| Oxidising properties | : Not | available. | | | | | |
| Particle characteristics | | | | | | | |
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SECTION 9: Physical and chemical properties

Median particle size

: Not applicable.

SECTION 10: Stability and reactivity

| 10.1 Reactivity | : | No specific test data related to reactivity available for this product or its ingredients. |
|--|---|---|
| 10.2 Chemical stability | : | The product is stable. |
| 10.3 Possibility of hazardous reactions | : | Under normal conditions of storage and use, hazardous reactions will not occur. |
| 10.4 Conditions to avoid | : | Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. |
| 10.5 Incompatible materials | : | Reactive or incompatible with the following materials: oxidising materials |
| 10.6 Hazardous decomposition products | : | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

SECTION 11: Toxicological information

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

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|--|---------------------------------|---------|-------------|----------|
| n-Butyl acetate | LC50 Inhalation Vapour | Rat | 0.74 mg/l | 4 hours |
| - | LD50 Dermal | Rabbit | 14112 mg/kg | - |
| | LD50 Oral | Rat | 10760 mg/kg | - |
| Xylene | LC50 Inhalation Vapour | Rat | 21.7 mg/l | 4 hours |
| - | LD50 Oral | Rat | 4300 mg/kg | - |
| Solvent naphtha (petroleum), light aromatic | LD50 Oral | Rat | 8400 mg/kg | - |
| 2-Methoxy-1-methylethyl acetate | LD50 Dermal | Rabbit | >5 g/kg | - |
| | LD50 Oral | Rat | 8532 mg/kg | - |
| Ethylbenzene | LC50 Inhalation Dusts and mists | Rat | 29000 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | 15400 mg/kg | - |
| | LD50 Oral | Rat | 3500 mg/kg | - |

Conclusion/Summary

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

Acute toxicity estimates

| Route | ATE value |
|----------------------|----------------|
| Dermal | 15021.32 mg/kg |
| Inhalation (vapours) | 123.17 mg/l |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|-------------------------------|-----------------------------|---------------|----------|---------------|--------------|
| titanium dioxide | Skin - Mild irritant | Human | - | 72 hours 300 | - |
| | | | | ug l | |
| n-Butyl acetate | Eyes - Moderate irritant | Rabbit | - | 100 mg | - |
| - | Skin - Moderate irritant | Rabbit | - | 24 hours 500 | - |
| | | | | mg | |
| Xylene | Eyes - Mild irritant | Rabbit | - | 87 mg | - |
| | Eyes - Severe irritant | Rabbit | - | 24 hours 5 | - |
| | | | | mg | |
| | Skin - Mild irritant | Rat | - | 8 hours 60 uL | - |
| | Skin - Moderate irritant | Rabbit | - | 100 % | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 500 | - |
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| SECTION 11: Toxicol | ogical information | | | | |
|--|--|----------------------------|--------------|---|---|
| Solvent naphtha (petroleum), light aromatic Ethylbenzene | Eyes - Mild irritant Eyes - Severe irritant Skin - Mild irritant | Rabbit Rabbit Rabbit | - - - | mg 24 hours 100 uL 500 mg 24 hours 15 mg | |
| Conclusion/Summary | : Based on available data, | the classification | n criteria a | are not met. | • |
| <u>Sensitisation</u> | | | | | |
| Conclusion/Summary | : Based on available data, | the classification | n criteria a | are not met. | |
| <u>Mutagenicity</u> | | | | | |
| Conclusion/Summary | : Based on available data, | the classification | n criteria a | are not met. | |

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.

| Conclusion/Summary | 1 | Based on available data, the classification criteria are not met. |
|---------------------------|---|---|
| Reproductive toxicity | | |
| Conclusion/Summary | 1 | Based on available data, the classification criteria are not met. |
| Teratogenicity | | |
| Conclusion/Summary | : | Based on available data, the classification criteria are not met. |

Specific target organ toxicity (single exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|---|------------|-------------------|------------------------------|
| n-Butyl acetate | Category 3 | - | Narcotic effects |
| Xylene | Category 3 | - | Respiratory tract irritation |
| Solvent naphtha (petroleum), light aromatic | Category 3 | - | Respiratory tract irritation |
| | Category 3 | | Narcotic effects |
| 2-Methoxy-1-methylethyl acetate | Category 3 | - | Narcotic effects |

Specific target organ toxicity (repeated exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|-------------------------|------------|-------------------|----------------|
| Xylene | Category 2 | oral, inhalation | - |
| Ethylbenzene | Category 2 | oral, inhalation | hearing organs |

Aspiration hazard

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

Information on likely routes : Not available.

| or exposure | | |
|--------------------------------|---|---|
| Potential acute health effects | | |
| Eye contact | : | No known significant effects or critical hazards. |
| Inhalation | : | Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. |
| Skin contact | 1 | No known significant effects or critical hazards. |
| Ingestion | ; | Can cause central nervous system (CNS) depression. |

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact

: No specific data.

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SECTION 11: Toxicological information

| Inhalation | : Adverse symptoms may include the following: |
|---------------------|---|
| | nausea or vomiting |
| | headache |
| | drowsiness/fatigue |
| | dizziness/vertigo |
| | unconsciousness |
| Skin contact | : No specific data. |
| Ingestion | : No specific data. |
| | |
| Delayed and immedia | te effects as well as chronic effects from short and long-term exposure |
| Short term exposure | |

| Potential immediate effects | : Not available. |
|--------------------------------|---|
| Potential delayed effects | : Not available. |
| Long term exposure | |
| Potential immediate effects | : Not available. |
| Potential delayed effects | : Not available. |
| Potential chronic health effo | ects |
| Not available. | |
| Conclusion/Summary | : Not available. |
| General | : No known significant effects or critical hazards. |
| 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 propertiesNot available.11.2.2 Other informationNot available.

SECTION 12: Ecological information

12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
|---|--|---|----------|
| titanium dioxide | Acute LC50 3 mg/l Fresh water | Crustaceans - Ceriodaphnia dubia - Neonate | 48 hours |
| | Acute LC50 6.5 mg/l Fresh water | Daphnia - <i>Daphnia pulex</i> - Neonate | 48 hours |
| | Acute LC50 >1000000 μg/l Marine water | Fish - Fundulus heteroclitus | 96 hours |
| n-Butyl acetate | Acute LC50 32 mg/l Marine water | Crustaceans - Artemia salina | 48 hours |
| - | Acute LC50 18000 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| Solvent naphtha (petroleum), light aromatic | Acute EC50 3.2 mg/l | Daphnia | 48 hours |
| 5 | Acute LC50 9.2 mg/l | Fish | 96 hours |

Conclusion/Summary

: Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

Conclusion/Summary

: This product has not been tested for biodegradation.

12.3 Bioaccumulative potential

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| SECTION 12: Ecological information | | | | |
|---|--------|-------------|-----------|--|
| Product/ingredient name | LogPow | BCF | Potential | |
| n-Butyl acetate | 2.3 | - | Low | |
| Xylene | 3.12 | 8.1 to 25.9 | Low | |
| Solvent naphtha (petroleum), light aromatic | - | 10 to 2500 | High | |
| 2-Methoxy-1-methylethyl acetate | 1.2 | - | Low | |
| Ethylbenzene | 3.6 | - | Low | |

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

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

| SECTION 13: Dispo | osal considerations |
|-----------------------------------|---|
| 13.1 Waste treatment meth | nods |
| 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 | : The classification of the product may meet the criteria for a hazardous waste. |
| European waste catalogue (EWC) | : 080111*, 200127* |
| Packaging | |
| Methods of disposal | : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. |
| Special precautions | : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. |

SECTION 14: Transport information

| | AD | R/RID | ADN | IMDG | IATA |
|---|--------------|-----------|---|---------------------------|--|
| 14.1 UN number or ID number | UN1263 | | UN1263 | UN1263 | UN1263 |
| 14.2 UN proper shipping name | PAINT | | PAINT | PAINT | PAINT |
| 14.3 Transport hazard class(es) | 3 | | 3 | 3 | 3 |
| 14.4 Packing group | 111 | | 111 | Ш | 111 |
| 14.5 Environmental hazards | No. | | No. | No. | No. |
| Additional informa ADR/RID | | packagin | <u>liquid exception</u> This gs up to 450 L accord code (D/E) | | s not subject to regulation in |
| ADN | : | | liquid exception This gs up to 450 L accord | | s not subject to regulation in |
| IMDG | : | Viscous | ncy schedules liquid exception This lgs up to 450 L accord | | s not subject to regulation in |
| 14.6 Special precau user | itions for : | upright a | | t persons transporting th | n closed containers that are ne product know what to do i |
| 14.7 Maritime trans bulk according to I instruments | | Not relev | ant/applicable due to r | nature of the product. | |

SECTION 15: Regulatory information

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

Annex XIV - List of substances subject to authorisation

<u>Annex XIV</u>

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] |
|---|--------------|-----|---------------------|
| TEKNODUR 0050 | | ≥90 | 3 |
| Labelling | : | | |
| Other EU regulations Industrial emissions | : Not listed | | |
| (integrated pollution prevention and control) - Air | . Not listed | | |

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| Industrial emissions | : Not listed | | |
|---|----------------------------------|---------------------------------------|-------------------|
| (integrated pollution prevention and control) - | | | |
| Water | | | |
| Explosive precursors | : Not applicable. | | |
| Ozone depleting substan | <u>ces (1005/2009/EU)</u> | | |
| Not listed. | | | |
| Prior Informed Consent (| <u>PIC) (649/2012/EU)</u> | | |
| Not listed. | | | |
| Persistent Organic Pollut | ants | | |
| Not listed. | | | |
| Seveso Directive | | | |
| This product is controlled u | nder the Seveso Directive. | | |
| Danger criteria | | | |
| Category | | | |
| P5c | | | |
| lational regulations | | | |
| Austria | | | |
| VbF class | : A II | | |
| | Very dangerous flammable liquid. | | |
| Limitation of the use of organic solvents | : Permitted. | | |
| Czech Republic | | | |
| Storage code | : 11 | | |
| Distance and a | | | |
| <u>Denmark</u> | : II-1 | | |
| | . 11-1 | | |
| Danish fire class | | | |
| Danish fire class | | Annex I Section A | Annex I Section B |
| Denmark Danish fire class Executive Order No. 1795 Ingredient name titanium dioxide Ethylbenzene | | Annex I Section A Listed Listed | Annex I Section B |

tection 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

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SECTION 15: Regulatory information

| | ···· · · · · · · · · · · · · · · · · · | |
|--|---|---|
| | knife, brush, roller, etc, for pre- and post-treatments in ca existing* facility type, if the operator is inside the spray zo | |
| | - Air-supplied half mask, coveralls and eye protection mu | st be worn. |
| | When spraying in existing* spray booths, if the operator is | s outside the spray zone. |
| | - Air-supplied full mask, arm protectors and apron must b | e worn. |
| | During non-atomising spraying in existing* facilities of the cabin and spray-booth type where the operator is working | |
| | - Air-supplied full mask, arm protectors and apron must b | e worn. |
| | During all spraying where atomisation occurs in cabins or operator is inside the spray zone and during spraying out or booth. | |
| | - Air-supplied full mask, coveralls and hood must be worr | ì. |
| | Drying: Items for drying/drying ovens that are temporari rack trolleys, etc, must be equipped with a mechanical ex fumes from wet items from passing through workers' inha | haust system to prevent |
| | Polishing: When polishing treated surfaces, a mask wit When machine grinding, eye protection must be worn. W worn. | |
| | Caution The regulations contain other stipulations in add | dition to the above. |
| | *See Regulations. | |
| Restrictions on use | Not to be used by professional users below 18 years of a Working Environment Authorities Executive Order regard | |
| List of undesirable substances | Not listed | |
| Carcinogenic waste | Waste containers must be labeled: Contains a substance by Danish working environment legislation on cancer risk | |
| Finland | | |
| <u>France</u> | | |
| Social Security Code, Articles L 461-1 to L 461-7 | XyleneRSolvent naphtha (petroleum), light aromaticR2-Methoxy-1-methylethyl acetateR | G 84 G 4bis, RG 84 G 84 G 84 G 84 |
| Reinforced medical surveillance | Act of July 11, 1977 determining the list of activities which medical surveillance: not applicable | |
| Germany | | |
| Storage class (TRGS 510) | 3 | |
| Hazardous incident ordinal | | |
| This product is controlled und | r the Germany Hazardous Incident Ordinance. | |
| Danger criteria | | |
| Category | | Reference number |
| P5c | | 1.2.5.3 |
| Hazard class for water | 2 | 1 |
| Technical instruction on air quality control | TA-Luft Number 5.2.5: 29.1% TA-Luft Class I - Number 5.2.5: 1.6% | |
| | | |

SECTION 15: Regulatory information AOX : The product contains organically bound halogens and can contribute to the AOX value in waste water. **Italy** D.Lgs. 152/06 : Not determined. **Netherlands** Ministry of Social Affairs and Employment (SZW) - Carcinogenic substances and processes, mutagenic or reprotoxic substances **Ingredient name Mutagen** Reproductive **Reproductive** Harmful via Carcinogen toxicity toxicity breastfeeding **Fertility Development Development 2** xylene -Solvent naphtha Listed Listed -(petroleum), light arom. : Z(1) Non biodegradable substances with hazardous properties for humans and the Water Discharge Policy environment (carcinogenicity/ mutagenicity/ reprotoxicity/ bioacumulative potential/ (ABM) toxicity or persistence). Decontamination effort: Z Norway **Sweden** Flammable liquid class : 2b (SRVFS 2005:10) **Switzerland VOC content** : VOC (w/w): 30.8% **International regulations** Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed. **Montreal Protocol** Not listed. Stockholm Convention on Persistent Organic Pollutants Not listed. **Rotterdam Convention on Prior Informed Consent (PIC)** Not listed. **UNECE Aarhus Protocol on POPs and Heavy Metals** Not listed. This product contains substances for which Chemical Safety Assessments are still 15.2 Chemical safety assessment required. SECTION 16: Other information Indicates information that has changed from previously issued version.

| | 5 1 5 |
|-------------------|---|
| Abbreviations and | : ATE = Acute Toxicity Estimate |
| acronyms | CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. |
| - | 1272/2008] |
| | DMEL = Derived Minimal Effect Level |
| | DNEL = Derived No Effect Level |
| | EUH statement = CLP-specific Hazard statement |
| | N/A = Not available |
| | PBT = Persistent, Bioaccumulative and Toxic |
| | PNEC = Predicted No Effect Concentration |
| | RRN = REACH Registration Number |
| | SGG = Segregation Group |
| | vPvB = Very Persistent and Very Bioaccumulative |
| | |

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

| Date of issue/Date of revision | : 02/02/2024 | Date of previous issue | : 02/02/2024 | Version | :14 | 33/35 |
|--------------------------------|--------------|------------------------|--------------|----------|-------|-------|
| TEKNODUR 0050 - All variants | | | | Label No | :7692 | 25 |

| Classification | | | | Justification |
|------------------------|-----------------|---|----------------|-----------------------------|
| Flam. Liq. 3, H226 | | | | On basis of test data |
| STOT SE 3, H336 | | | | |
| Aquatic Chronic 3, | H412 | | | Calculation method |
| Full text of abbrev | iated H state | <u>ments</u> | | |
| | | ble liquid and vapour. | | |
| | | uid and vapour. | | |
| | | swallowed and enters ain | ways. | |
| | | tact with skin. | | |
| | auses skin ir | | | |
| | | s eye irritation. | | |
| | larmful if inha | | | |
| | | piratory irritation. | | |
| | | wsiness or dizziness. causing cancer. | | |
| | | nage to organs through p | rolongod or ro | posted expegure |
| | | ic life with long lasting effe | | pealed exposure. |
| | | atic life with long lasting en | | |
| | | osure may cause skin dry | | na |
| Full text of classif | · · | | | |
| | - | | | |
| Acute Tox. 4 | | TOXICITY - Category 4 | | Ostansen 0 |
| Aquatic Chronic 2 | | ERM (CHRONIC) AQUA | | |
| Aquatic Chronic 3 | | ERM (CHRONIC) AQUA | | - Calegory 3 |
| Asp. Tox. 1 Carc. 2 | | TION HAZARD - Categor OGENICITY - Category 2 | | |
| Eye Irrit. 2 | | S EYE DAMAGE/EYE IR | | ategory 2 |
| Flam. Liq. 2 | | ABLE LIQUIDS - Category | | |
| Flam. Liq. 3 | | ABLE LIQUIDS - Category | | |
| Skin Irrit. 2 | | RROSION/IRRITATION | | |
| STOT RE 2 | | | | EATED EXPOSURE - Category 2 |
| STOT SE 3 | | | | LE EXPOSURE - Category 3 |
| Date of issue/ Date | | 02/02/2024 | | |
| revision | | | | |
| Date of previous is | ssue | 02/02/2024 | | |
| Version | | 14 | | |
| | | | | |

Notice to reader

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

Date of issue/Date of revision TEKNODUR 0050 - All variants : 02/02/2024 Date of previous issue