SAFETY DATA SHEET



ALPOCRYL KLARLACK 5454-15 - FARBLOS-INCOLORE-COLOURLESS

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

1.1 Product identifier

Product name : ALPOCRYL KLARLACK 5454-15 - FARBLOS-INCOLORE-COLOURLESS

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

Product use : Paint.

1.3 Details of the supplier of the safety data sheet

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

e-mail address of person : Prod-safe@teknos.com

responsible for this SDS

National contact

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

1.4 Emergency telephone number

National advisory body/Poison Centre

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. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Repr. 2, H361d **STOT SE 3, H336 STOT RE 2, H373**

Aquatic Chronic 3, H412

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

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

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

2.2 Label elements

Hazard pictograms







Signal word : Danger

Hazard statements : H225 - Highly flammable liquid and vapour.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness.

H361d - Suspected of damaging the unborn child.

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

H412 - Harmful to aquatic life with long lasting effects.

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SECTION 2: Hazards identification

Precautionary statements

Prevention : P280 - Wear protective gloves, protective clothing, eye protection, face protection,

or hearing protection.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P260 - Do not breathe vapour.

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

Storage : P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

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

national and international regulations.

Hazardous ingredients

Supplemental label

elements

: Contains: n-Butyl acetate; Ethyl acetate; Xylene and Toluene

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

: Mixture 3.2 Mixtures

| Product/ingredient name | Identifiers | % | Classification | Specific Conc. Limits, M-factors and ATEs | Туре |
|-------------------------|--|-----------|--|---|---------|
| r-Butyl acetate | REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1 | ≥25 - ≤50 | Flam. Liq. 3, H226 STOT SE 3, H336 EUH066 | - | [1] [2] |
| Ethyl acetate | REACH #: 01-2119475103-46 EC: 205-500-4 CAS: 141-78-6 Index: 607-022-00-5 | ≥10 - ≤25 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 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 - <20 | Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 (oral, inhalation) Asp. Tox. 1, H304 | ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/ I | [1] [2] |
| Toluene | REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3 | ≥10 - ≤25 | Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 | - | [1] [2] |

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SECTION 3: Composition/information on ingredients

| <u> </u> | 1 | 1 | App Toy 1 H204 | | |
|--|--|------|---|--|---------|
| | | | Asp. Tox. 1, H304 | | |
| Ethylbenzene | REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4 | ≤3 | Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) (oral, inhalation) Asp. Tox. 1, H304 | ATE [Inhalation (vapours)] = 11 mg/ I | [1] [2] |
| EO bis(benztriazolyl) phenylpropionat | REACH #: 01-0000015075-76 EC: 400-830-7 CAS: 104810-48-2 Index: 607-176-00-3 | ≤2.2 | Skin Sens. 1A, H317 Aquatic Chronic 2, H411 | - | [1] |
| bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate | REACH #: 01-2119491304-40 EC: 255-437-1 CAS: 41556-26-7 | <1 | Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 | M [Acute] = 1 M [Chronic] = 1 | [1] |
| Fatty acids, C14-18 and C16-18-unsatd., maleated | REACH #: 01-2119976378-19 EC: 288-306-2 CAS: 85711-46-2 | ≤0.3 | Skin Irrit. 2, H315 Skin Sens. 1, H317 | - | [1] |
| methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate | REACH #: 01-2119491304-40 EC: 280-060-4 CAS: 82919-37-7 | ≤0.3 | Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 | M [Acute] = 1 M [Chronic] = 1 | [1] |
| Methyl methacrylate | REACH #: 01-2119452498-28 EC: 201-297-1 CAS: 80-62-6 Index: 607-035-00-6 | ≤0.3 | Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335 | - | [1] [2] |
| Maleic anhydride | REACH #: 01-2119472428-31 EC: 203-571-6 CAS: 108-31-6 Index: 607-096-00-9 | ≤0.1 | Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1A, H317 STOT RE 1, H372 (respiratory system) (inhalation) EUH071 See Section 16 for the full text of the H statements declared above. | ATE [Oral] = 400 mg/kg Skin Sens. 1, H317: C ≥ 0.001% | [1] |

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

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

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SECTION 4: First aid measures

4.1 Description of first aid measures

Eve contact

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

Inhalation

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

Skin contact

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

Ingestion

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

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

Eye contact

: Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation

: Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness reduced foetal weight increase in foetal deaths skeletal malformations

Skin contact

: Adverse symptoms may include the following:

irritation redness

reduced foetal weight increase in foetal deaths skeletal malformations

Ingestion

: Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

4.3 Indication of any immediate medical attention and special treatment needed

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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.

: No specific treatment. Specific treatments

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing

media

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

Unsuitable extinguishing media

: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : Highly 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 metal oxide/oxides

5.3 Advice for firefighters

Special protective actions for fire-fighters

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

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

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

For emergency responders:

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

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Small spill

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

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

Advice on general occupational hygiene

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

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. 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 : Not available. **Industrial sector specific** : Not available.

solutions

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

8.1 Control parameters

Occupational exposure limits

| Product/ingredient name | Exposure limit values |
|-------------------------------|--|
| <mark>ଜ</mark> -Butyl acetate | Regulation on Limit Values - MAC (Austria, 4/2021). [Butyl |
| | acetate (all isomers except tert-butyl acetate)] |
| | CEIL: 480 mg/m³ 15 minutes. |
| | CEIL: 100 ppm 15 minutes. |
| | TWA: 241 mg/m³ 8 hours. |
| | TWA: 50 ppm 8 hours. |
| Ethyl acetate | Regulation on Limit Values - MAC (Austria, 4/2021). |
| , | TWA: 200 ppm 8 hours. |
| | TWA: 734 mg/m³ 8 hours. |
| | PEAK: 1468 mg/m³, 4 times per shift, 15 minutes. |
| | PEAK: 400 ppm, 4 times per shift, 15 minutes. |
| Xylene | Regulation on Limit Values - MAC (Austria, 4/2021). [Xylenes |
| , tyrene | (all isomers)] |
| | PEAK: 442 mg/m³, 4 times per shift, 15 minutes. |
| | TWA: 50 ppm 8 hours. |
| | PEAK: 100 ppm, 4 times per shift, 15 minutes. |
| | TWA: 221 mg/m³ 8 hours. |
| Toluene | |
| Toluene | Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed |
| | through skin. |
| | TWA: 50 ppm 8 hours. |
| | TWA: 190 mg/m³ 8 hours. |
| | PEAK: 100 ppm, 4 times per shift, 15 minutes. |
| - | PEAK: 380 mg/m³, 4 times per shift, 15 minutes. |
| Ethylbenzene | Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed |
| | through skin. |
| | TWA: 100 ppm 8 hours. |
| | TWA: 440 mg/m³ 8 hours. |
| | CEIL: 200 ppm, 8 times per shift, 5 minutes. |
| | CEIL: 880 mg/m³, 8 times per shift, 5 minutes. |
| Methyl methacrylate | Regulation on Limit Values - MAC (Austria, 4/2021). Skin |
| | sensitiser. |
| | TWA: 50 ppm 8 hours. |
| | TWA: 210 mg/m³ 8 hours. |
| | CEIL: 100 ppm, 8 times per shift, 5 minutes. |
| | CEIL: 420 mg/m³, 8 times per shift, 5 minutes. |
| Maleic anhydride | Regulation on Limit Values - MAC (Austria, 4/2021). Skin |
| | sensitiser. Inhalation sensitiser. |
| | TWA: 0.1 ppm 8 hours. |
| | TWA: 0.4 mg/m ³ 8 hours. |
| | CEIL: 0.2 ppm, 8 times per shift, 5 minutes. |
| | CEIL: 0.8 mg/m³, 8 times per shift, 5 minutes. |
| ₁-Butyl acetate | Limit values (Belgium, 5/2021). [butyl acetate, all isomers] |
| n-Dutyl acetate | |
| | STEL: 712 mg/m³ 15 minutes. |
| | STEL: 150 ppm 15 minutes. |
| | TWA: 238 mg/m³ 8 hours. |
| Thurst a sakaka | TWA: 50 ppm 8 hours. |
| Ethyl acetate | Limit values (Belgium, 5/2021). |
| | TWA: 200 ppm 8 hours. |
| | TWA: 734 mg/m³ 8 hours. |
| | STEL: 1468 mg/m³ 15 minutes. |
| | STEL: 400 ppm 15 minutes. |
| Xylene | Limit values (Belgium, 5/2021). [Xylene] Absorbed through |
| | skin. |
| | TWA: 50 ppm 8 hours. |
| | TWA: 221 mg/m³ 8 hours. |
| | STEL: 100 ppm 15 minutes. |
| | 01 LE. 100 ppm 10 minutes. |

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STEL: 442 mg/m³ 15 minutes. Toluene

Limit values (Belgium, 5/2021). Absorbed through skin.

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

Methyl methacrylate Limit values (Belgium, 5/2021).

> TWA: 50 ppm 8 hours. TWA: 208 mg/m³ 8 hours. STEL: 416 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes.

Maleic anhydride Limit values (Belgium, 5/2021). TWA: 0.0025 ppm 8 hours. Form: vapour and aerosol

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/m³ 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.

TWA: 0.01 mg/m³ 8 hours. Form: vapour and aerosol

Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021).

> Limit value 8 hours: 734 mg/m³ 8 hours. Limit value 15 min: 400 ppm 15 minutes. Limit value 15 min: 1468 mg/m³ 15 minutes. Limit value 8 hours: 200 ppm 8 hours.

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/m³ 8 hours. Limit value 15 min: 442 mg/m³ 15 minutes. 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 Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed through skin.

Limit value 15 min: 384 mg/m³ 15 minutes. Limit value 8 hours: 192 mg/m³ 8 hours. 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 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 Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021).

Limit value 8 hours: 50 ppm 8 hours. Limit value 15 min: 100 ppm 15 minutes.

Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021).

Limit value 8 hours: 1 mg/m³ 8 hours.

Ethyl acetate

Xylene

Toluene

Ethylbenzene

Methyl methacrylate

Maleic anhydride

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SECTION 8: Exposure controls/personal protection Ministry of Economy, Labour and Entrepreneurship ELV/ n-Butvl 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. Ethyl acetate Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). STELV: 400 ppm 15 minutes. ELV: 200 ppm 8 hours. STELV: 1468 mg/m³ 15 minutes. ELV: 734 mg/m³ 8 hours. **Xylene** Ministry of Economy, Labour and Entrepreneurship ELV/ 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. Ministry of Economy, Labour and Entrepreneurship ELV/ Toluene STELV (Croatia, 1/2021). Absorbed through skin. STELV: 384 mg/m³ 15 minutes. STELV: 100 ppm 15 minutes. ELV: 192 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. Ministry of Economy, Labour and Entrepreneurship ELV/ Methyl methacrylate STELV (Croatia, 1/2021). Absorbed through skin. Skin sensitiser. STELV: 100 ppm 15 minutes. ELV: 50 ppm 8 hours. Ministry of Economy, Labour and Entrepreneurship ELV/ Maleic anhydride STELV (Croatia, 1/2021). Skin sensitiser. Inhalation sensitiser. STELV: 0.2 ppm 15 minutes. ELV: 0.41 mg/m³ 8 hours. STELV: 0.8 mg/m³ 15 minutes. ELV: 0.1 ppm 8 hours. n-Butyl acetate Department of labour inspection (Cyprus, 7/2021). STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 8 hours. Ethyl acetate Department of labour inspection (Cyprus, 7/2021). STEL: 400 ppm 15 minutes. STEL: 1468 mg/m³ 15 minutes. TWA: 200 ppm 8 hours. TWA: 734 mg/m³ 8 hours. **Xylene** Department of labour inspection (Cyprus, 7/2021). [Xylene, mixed isomers] Absorbed through skin. STEL: 100 ppm 15 minutes. STEL: 442 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 221 mg/m³ 8 hours. Toluene Department of labour inspection (Cyprus, 7/2021). Absorbed through skin. STEL: 100 ppm 15 minutes. STEL: 384 mg/m³ 15 minutes. TWA: 50 ppm 8 hours.

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TWA: 192 mg/m³ 8 hours.

Department of labour inspection (Cyprus, 7/2021). Absorbed Ethylbenzene through skin. STEL: 884 mg/m³ 15 minutes. TWA: 100 ppm 8 hours. TWA: 442 mg/m³ 8 hours. STEL: 200 ppm 15 minutes. Methyl methacrylate Department of labour inspection (Cyprus, 7/2021). STEL: 100 ppm 15 minutes. TWA: 50 ppm 8 hours. Government regulation of Czech Republic PEL/NPK-P (Czech n-Butyl acetate 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. Ethyl acetate Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). TWA: 700 mg/m³ 8 hours. TWA: 191.1 ppm 8 hours. STEL: 900 mg/m³ 15 minutes. STEL: 245.7 ppm 15 minutes. **Xylene** Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). [xylene, technical mixture of isomers and all isomers] Absorbed through skin. TWA: 200 mg/m³ 8 hours. TWA: 45.4 ppm 8 hours. STEL: 400 mg/m³ 15 minutes. STEL: 90.8 ppm 15 minutes. Toluene Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). Absorbed through skin. TWA: 192 mg/m³ 8 hours. TWA: 50.112 ppm 8 hours. STEL: 384 mg/m³ 15 minutes. STEL: 100.224 ppm 15 minutes. Government regulation of Czech Republic PEL/NPK-P (Czech Ethylbenzene Republic, 10/2022). Absorbed through skin. TWA: 200 mg/m³ 8 hours. TWA: 45.4 ppm 8 hours. STEL: 500 mg/m³ 15 minutes. STEL: 113.5 ppm 15 minutes. Government regulation of Czech Republic PEL/NPK-P (Czech Methyl methacrylate Republic, 10/2022). Skin sensitiser. TWA: 50 mg/m³ 8 hours. TWA: 12 ppm 8 hours. STEL: 150 mg/m³ 15 minutes. STEL: 36 ppm 15 minutes. Maleic anhydride Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). Skin sensitiser. TWA: 1 mg/m³ 8 hours. TWA: 0.245 ppm 8 hours. STEL: 2 mg/m³ 15 minutes. STEL: 0.49 ppm 15 minutes. n-Butyl acetate Working Environment Authority (Denmark, 6/2022). [Butyl acetate, all isomers] TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 8 hours. STEL: 723 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. Working Environment Authority (Denmark, 6/2022). Ethyl acetate TWA: 150 ppm 8 hours. TWA: 540 mg/m³ 8 hours. STEL: 1468 mg/m³ 15 minutes.

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Xylene

STEL: 400 ppm 15 minutes.

Working Environment Authority (Denmark, 6/2022). [Xylenes,

all isomers] Absorbed through skin. TWA: 25 ppm 8 hours. TWA: 109 mg/m³ 8 hours. STEL: 442 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. Toluene Working Environment Authority (Denmark, 6/2022). Absorbed through skin. TWA: 25 ppm 8 hours. TWA: 94 mg/m³ 8 hours. STEL: 384 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. Working Environment Authority (Denmark, 6/2022). Absorbed Ethylbenzene through skin. Carcinogen. TWA: 50 ppm 8 hours. TWA: 217 mg/m³ 8 hours. STEL: 434 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. Methyl methacrylate Working Environment Authority (Denmark, 6/2022). Absorbed through skin. TWA: 25 ppm 8 hours. TWA: 102 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. Working Environment Authority (Denmark, 6/2022). Maleic anhydride TWA: 0.1 ppm 8 hours. TWA: 0.4 mg/m³ 8 hours. STEL: 0.8 mg/m³ 15 minutes. STEL: 0.2 ppm 15 minutes. n-Butyl acetate Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 8 hours. Ethyl acetate Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). TWA: 500 mg/m³ 8 hours. TWA: 150 ppm 8 hours. STEL: 1100 mg/m³ 15 minutes. STEL: 300 ppm 15 minutes. Occupational exposure limits, Regulation No. 293 (Estonia, **Xylene** 12/2022). [Xylenes] Absorbed through skin. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. STEL: 450 mg/m³ 15 minutes. TWA: 200 mg/m³ 8 hours. Toluene Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). Absorbed through skin. TWA: 192 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 384 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. Ethylbenzene Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). Absorbed through skin. Skin sensitiser. TWA: 442 mg/m³ 8 hours. TWA: 100 ppm 8 hours. STEL: 884 mg/m³ 15 minutes. STEL: 200 ppm 15 minutes. Occupational exposure limits, Regulation No. 293 (Estonia, Methyl methacrylate 12/2022). Skin sensitiser. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. Occupational exposure limits, Regulation No. 293 (Estonia, Maleic anhydride 12/2022). Skin sensitiser. TWA: 1.2 mg/m³ 8 hours.

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TWA: 0.3 ppm 8 hours. STEL: 2.5 mg/m³ 15 minutes. STEL: 0.6 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/m³ 8 hours. TWA: 50 ppm 8 hours. Ethyl acetate EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values STEL: 400 ppm 15 minutes. STEL: 1468 mg/m³ 15 minutes. TWA: 200 ppm 8 hours. TWA: 734 mg/m³ 8 hours. EU OEL (Europe, 1/2022). [xylene, mixed isomers pure] **Xylene** Absorbed through skin. Notes: list of indicative occupational 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. Toluene EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 192 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 384 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. Ethylbenzene EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 100 ppm 8 hours. TWA: 442 mg/m³ 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m³ 15 minutes. Methyl methacrylate EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. n-Butyl acetate Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). TWA: 150 ppm 8 hours. TWA: 720 mg/m³ 8 hours. STEL: 200 ppm 15 minutes. STEL: 960 mg/m³ 15 minutes. Ethyl acetate Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). TWA: 200 ppm 8 hours. TWA: 730 mg/m³ 8 hours. STEL: 400 ppm 15 minutes. STEL: 1470 mg/m³ 15 minutes. **Xylene** Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). [Xylenes] Absorbed through skin. STEL: 440 mg/m³ 15 minutes. TWA: 220 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. Toluene Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). Absorbed through skin. Ototoxicant. TWA: 25 ppm 8 hours. TWA: 81 mg/m³ 8 hours. STEL: 100 ppm 15 minutes.

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Ethylbenzene

STEL: 380 mg/m³ 15 minutes.

(Finland, 10/2021). Absorbed through skin.

Institute of Occupational Health, Ministry of Social Affairs

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

Institute of Occupational Health, Ministry of Social Affairs Methyl methacrylate (Finland, 10/2021).

TWA: 10 ppm 8 hours. TWA: 42 mg/m³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 210 mg/m³ 15 minutes.

Maleic anhydride Institute of Occupational Health, Ministry of Social Affairs

(Finland, 10/2021). TWA: 0.1 ppm 8 hours. TWA: 0.41 mg/m³ 8 hours.

CEIL: 0.2 ppm CEIL: 0.81 mg/m³

Ministry of Labor (France, 10/2022). Notes: Binding regulatory n-Butyl acetate limit values (article R. 4412-149 of the Labor Code)

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

Ethyl acetate Ministry of Labor (France, 10/2022). Notes: Binding regulatory

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

TWA: 200 ppm 8 hours. TWA: 734 mg/m³ 8 hours. STEL: 1468 mg/m³ 15 minutes. STEL: 400 ppm 15 minutes.

Ministry of Labor (France, 10/2022). [xylenes, mixed isomers, **Xylene** pure] Absorbed through skin. Notes: Binding regulatory limit

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

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

Ministry of Labor (France, 10/2022). Absorbed through skin. Toluene Notes: Binding regulatory limit values (article R. 4412-149 of

the Labor Code)

TWA: 20 ppm 8 hours. TWA: 76.8 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 384 mg/m³ 15 minutes.

Ethylbenzene 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/m³ 8 hours. STEL: 442 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes.

Methyl methacrylate Ministry of Labor (France, 10/2022). Notes: Binding regulatory

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

TWA: 205 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 410 mg/m³ 15 minutes.

Ministry of Labor (France, 10/2022). Sensitization potential. Maleic anhydride

Notes: Permissible limit values (circulars)

STEL: 1 mg/m³ 15 minutes.

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n-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/m³ 8 hours. PEAK: 960 mg/m³, 4 times per shift, 15 minutes. TRGS 900 OEL (Germany, 6/2022). TWA: 300 mg/m³ 8 hours. TWA: 62 ppm 8 hours. PEAK: 600 mg/m³ 15 minutes. PEAK: 124 ppm 15 minutes. Ethyl acetate TRGS 900 OEL (Germany, 6/2022). TWA: 730 mg/m³ 8 hours. PEAK: 1460 mg/m³ 15 minutes. TWA: 200 ppm 8 hours. PEAK: 400 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). TWA: 200 ppm 8 hours. PEAK: 400 ppm, 4 times per shift, 15 minutes. TWA: 750 mg/m³ 8 hours. PEAK: 1500 mg/m³, 4 times per shift, 15 minutes. **Xylene** TRGS 900 OEL (Germany, 6/2022). [xylene] Absorbed through TWA: 220 mg/m³ 8 hours. PEAK: 440 mg/m³ 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/m³ 8 hours. PEAK: 440 mg/m³, 4 times per shift, 15 minutes. Toluene TRGS 900 OEL (Germany, 6/2022). Absorbed through skin. TWA: 190 mg/m³ 8 hours. PEAK: 380 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. PEAK: 100 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). Absorbed through TWA: 50 ppm 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes. TWA: 190 mg/m³ 8 hours. PEAK: 380 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. TRGS 900 OEL (Germany, 6/2022). Methyl methacrylate TWA: 210 mg/m³ 8 hours. PEAK: 420 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. PEAK: 100 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). Skin sensitiser. TWA: 50 ml/m3 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes. TWA: 210 mg/m³ 8 hours. PEAK: 420 mg/m³, 4 times per shift, 15 minutes.

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PEAK: 100 ml/m³, 4 times per shift, 15 minutes. Maleic anhydride TRGS 900 OEL (Germany, 6/2022). Skin sensitiser. Inhalation sensitiser. TWA: 0.081 mg/m³ 8 hours. CEIL: 0.2025 mg/m3 TWA: 0.02 ppm 8 hours. CEIL: 0.05 ppm PEAK: 0.081 mg/m³ 15 minutes. PEAK: 0.02 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). Skin sensitiser. Inhalation sensitiser. TWA: 0.02 ppm 8 hours. CEIL: 0.05 ml/m3 TWA: 0.081 mg/m³ 8 hours. CEIL: 0.2 mg/m³ PEAK: 0.081 mg/m³, 4 times per shift, 15 minutes. Presidential Decree 307/1986; Occupational exposure limit n-Butyl acetate 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. Ethyl acetate Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). TWA: 200 ppm 8 hours. TWA: 734 mg/m³ 8 hours. STEL: 1468 mg/m³ 15 minutes. STEL: 400 ppm 15 minutes. Presidential Decree 307/1986: Occupational exposure limit **Xylene** 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. Toluene Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 192 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 384 mg/m³ 15 minutes. Presidential Decree 307/1986: Occupational exposure limit Ethylbenzene 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. Presidential Decree 307/1986: Occupational exposure limit Methyl methacrylate values (Greece, 9/2021). STEL: 100 ppm 15 minutes. TWA: 50 ppm 8 hours. Presidential Decree 307/1986: Occupational exposure limit Maleic anhydride values (Greece, 9/2021). TWA: 0.25 ppm 8 hours. TWA: 1 mg/m³ 8 hours. 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. Ethyl acetate 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Skin sensitiser. Inhalation sensitiser.

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TWA: 734 mg/m³ 8 hours. PEAK: 1468 mg/m³ 15 minutes. PEAK: 400 ppm 15 minutes. TWA: 200 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. Toluene 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed through skin. Skin sensitiser. Inhalation sensitiser. TWA: 192 mg/m³ 8 hours. PEAK: 384 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. 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed Methyl methacrylate through skin. Skin sensitiser. Inhalation sensitiser. TWA: 208 mg/m³ 8 hours. PEAK: 415 mg/m³ 15 minutes. PEAK: 100 ppm 15 minutes. TWA: 50 ppm 8 hours. 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Skin sensitiser. Maleic anhydride Inhalation sensitiser. TWA: 0.08 mg/m³ 8 hours. PEAK: 0.08 mg/m³ 15 minutes. PEAK: 0.2 ppm 15 minutes. TWA: 0.2 ppm 8 hours. Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). n-Butyl acetate [butyl acetate, all isomers] TWA: 241 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 723 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. Ethyl acetate Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). TWA: 540 mg/m³ 8 hours. TWA: 150 ppm 8 hours. Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). **Xylene** [xylene, all isomers] Absorbed through skin. STEL: 442 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 109 mg/m³ 8 hours. TWA: 25 ppm 8 hours. Toluene Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). Absorbed through skin. STEL: 188 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes. TWA: 94 mg/m³ 8 hours. TWA: 25 ppm 8 hours. Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). Ethylbenzene Absorbed through skin. STEL: 884 mg/m³ 15 minutes. STEL: 200 ppm 15 minutes. TWA: 200 mg/m³ 8 hours. TWA: 50 ppm 8 hours. Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). Methyl methacrylate Absorbed through skin. Skin sensitiser.

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STEL: 100 ppm 15 minutes.

TWA: 50 ppm 8 hours. Maleic anhydride

Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).

Skin sensitiser.

TWA: 0.4 mg/m³ 8 hours. TWA: 0.1 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/m³ 8 hours. OELV-15min: 150 ppm 15 minutes. OELV-15min: 723 mg/m³ 15 minutes.

Ethyl acetate NAOSH (Ireland, 5/2021). Notes: EU derived Occupational

> **Exposure Limit Values** OELV-8hr: 200 ppm 8 hours. OELV-15min: 400 ppm 15 minutes. OELV-15min: 1468 mg/m³ 15 minutes. OELV-8hr: 734 mg/m³ 8 hours.

NAOSH (Ireland, 5/2021). [xylene mixed isomers] Absorbed **Xylene** through skin. Notes: EU derived Occupational Exposure Limit

Values

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

Toluene NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU

derived Occupational Exposure Limit Values

OELV-8hr: 50 ppm 8 hours. OELV-8hr: 192 mg/m³ 8 hours. OELV-15min: 100 ppm 15 minutes. OELV-15min: 384 mg/m³ 15 minutes.

NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU Ethylbenzene

derived Occupational Exposure Limit Values

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

Methyl methacrylate NAOSH (Ireland, 5/2021). Sensitization potential. Notes: EU

derived Occupational Exposure Limit Values

OELV-8hr: 50 ppm 8 hours. OELV-15min: 100 ppm 15 minutes.

NAOSH (Ireland, 5/2021). Sensitization potential. Notes: Maleic anhydride

Advisory Occupational Exposure Limit Values (OELVs) OELV-8hr: 0.01 ppm 8 hours. Form: The Inhalable Fraction and

Vapour note is used when a material exerts sufficient vapour pressure such that it may be present in both particle and vapour

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phases.

EU OEL (Europe, 1/2022). Notes: list of indicative n-Butyl acetate

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.

Ethyl acetate Legislative Decree No. 819/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020).

> Short Term: 400 ppm 15 minutes. Short Term: 1468 ma/m³ 15 minutes.

8 hours: 200 ppm 8 hours. 8 hours: 734 mg/m³ 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/m³ 8 hours. Short Term: 100 ppm 15 minutes.

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Short Term: 442 mg/m³ 15 minutes.

Toluene Legislative Decree No. 819/2008. Ti

Legislative Decree No. 819/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020).

Absorbed through skin.

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

Ethylbenzene 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.

Methyl methacrylate Legislative Decree No. 819/2008. Title IX. Protection from

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

Short Term: 100 ppm 15 minutes.

8 hours: 50 ppm 8 hours.

Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).

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

Ethyl acetate Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).

TWA: 200 mg/m³ 8 hours. STEL: 400 ppm 15 minutes. STEL: 1468 mg/m³ 15 minutes.

TWA: 54 ppm 8 hours.

Xylene Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).

[Xylenes] Absorbed through skin.

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

Toluene Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).

Absorbed through skin. TWA: 50 mg/m³ 8 hours.

STEL: 150 mg/m³ 15 minutes. TWA: 14 ppm 8 hours. STEL: 40 ppm 15 minutes.

Ethylbenzene Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).

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

Methyl methacrylate | Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).

TWA: 10 mg/m³ 8 hours.

Maleic anhydride Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021).

TWA: 1 mg/m³ 8 hours.

p-Butyl acetate Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).

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

Ethyl acetate Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).

TWA: 500 mg/m³ 8 hours. TWA: 150 ppm 8 hours. CEIL: 1100 mg/m³ CEIL: 300 ppm

Xylene Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).

[xylene, mixed isomers, pure] Absorbed through skin.

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

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Toluene Twa: 221 mg/m³ 8 hours.

Lithuanian Hygiene Stand

Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).

Absorbed through skin. TWA: 192 mg/m³ 8 hours.

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

Ethylbenzene Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).

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

Methyl methacrylate Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Skin

sensitiser. Inhalation sensitiser.

TWA: 208 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 416 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes.

Maleic anhydride Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Skin

sensitiser. Inhalation sensitiser.

TWA: 1.2 mg/m³ 8 hours. TWA: 0.3 ppm 8 hours. STEL: 2.5 mg/m³ 15 minutes. STEL: 0.6 ppm 15 minutes.

p-Butyl acetate Grand-Duchy Regulation 2016. Chemical agents. Annex I

(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.

Ethyl acetate Grand-Duchy Regulation 2016. Chemical agents. Annex I

(Luxembourg, 3/2021).

STEL: 400 ppm 15 minutes.

STEL: 1468 mg/m³ 15 minutes.

TWA: 200 ppm 8 hours.

TWA: 734 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.

Toluene Grand-Duchy Regulation 2016. Chemical agents. Annex I

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

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

Ethylbenzene Grand-Duchy Regulation 2016. Chemical agents. Annex I

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

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

Methyl methacrylate Grand-Duchy Regulation 2016. Chemical agents. Annex I

(Luxembourg, 3/2021). STEL: 100 ppm 15 minutes. TWA: 50 ppm 8 hours.

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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/m³ 8 hours. TWA: 50 ppm 8 hours. Ethyl acetate EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values STEL: 400 ppm 15 minutes. STEL: 1468 mg/m³ 15 minutes. TWA: 200 ppm 8 hours. TWA: 734 mg/m³ 8 hours. EU OEL (Europe, 1/2022). [xylene, mixed isomers pure] **Xylene** Absorbed through skin. Notes: list of indicative occupational 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. EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list Toluene of indicative occupational exposure limit values TWA: 192 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 384 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. Ethylbenzene EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 100 ppm 8 hours. TWA: 442 mg/m³ 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m³ 15 minutes. EU OEL (Europe, 1/2022). Notes: list of indicative Methyl methacrylate occupational exposure limit values TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. n-Butyl acetate Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). 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. Ethyl acetate Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). STEL,15-min: 1468 mg/m³ 15 minutes. OEL, 8-h TWA: 734 mg/m³ 8 hours. STEL,15-min: 400 ppm 15 minutes. OEL, 8-h TWA: 200 ppm 8 hours. **Xylene** Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). [xylenes (all isomers)] Absorbed through skin. OEL, 8-h TWA: 210 mg/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. Toluene Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). OEL, 8-h TWA: 150 mg/m³ 8 hours. STEL,15-min: 384 mg/m³ 15 minutes. STEL,15-min: 100 ppm 15 minutes. OEL, 8-h TWA: 39 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/m³ 8 hours. STEL,15-min: 430 mg/m³ 15 minutes.

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STEL,15-min: 97.3 ppm 15 minutes. OEL, 8-h TWA: 48.6 ppm 8 hours.

Methyl methacrylate

Ministry of Social Affairs and Employment, Legal limit values

(Netherlands, 12/2022).

OEL, 8-h TWA: 205 mg/m³ 8 hours. STEL,15-min: 410 mg/m³ 15 minutes. STEL,15-min: 100 ppm 15 minutes. OEL, 8-h TWA: 50 ppm 8 hours.

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

STEL: 723 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes.

FOR-2011-12-06-1358 (Norway, 12/2022). Notes: indicative

limit value

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

FOR-2011-12-06-1358 (Norway, 12/2022). Notes: indicative

limit value

TWA: 200 ppm 8 hours. TWA: 734 mg/m³ 8 hours.

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

STEL: 1468 mg/m³ 15 minutes. STEL: 400 ppm 15 minutes.

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/m³ 8 hours.

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

skin. Notes: indicative limit value

TWA: 25 ppm 8 hours. TWA: 94 mg/m³ 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/m³ 8 hours.

Methyl methacrylate | FOR-2011-12-06-1358 (Norway, 12/2022). Skin sensitiser.

Notes: indicative limit value TWA: 25 ppm 8 hours. TWA: 100 mg/m³ 8 hours.

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

STEL: 400 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes.

Maleic anhydride FOR-2011-12-06-1358 (Norway, 12/2022). Skin sensitiser.

TWA: 0.2 ppm 8 hours. TWA: 0.8 mg/m³ 8 hours.

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

Ethyl 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: 734 mg/m³ 8 hours. STEL: 1468 mg/m³ 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

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Toluene

through skin.

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

Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). Absorbed through skin.

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

Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). Absorbed through skin.

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

Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021).

TWA: 100 mg/m³ 8 hours. STEL: 300 mg/m³ 15 minutes.

Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). Absorbed through skin.

TWA: 0.5 mg/m³ 8 hours. STEL: 1 mg/m³ 15 minutes.

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

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

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

TWA: 400 ppm 8 hours.

Portuguese Institute of Quality (Portugal, 11/2014). [Xylene]

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

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

through skin.

TWA: 20 ppm 8 hours.

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

TWA: 20 ppm 8 hours.

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

sensitiser.

TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes.

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

TWA: 0.01 mg/m³ 8 hours. Form: Inhalable fraction and vapor

HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021).

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

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

HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021).

VLA: 734 mg/m³ 8 hours. VLA: 200 ppm 8 hours.

Short term: 1468 mg/m³ 15 minutes. Short term: 400 ppm 15 minutes.

Methyl methacrylate

Ethylbenzene

Maleic anhydride

n-Butyl acetate

Ethyl acetate

Xylene

Toluene

Ethylbenzene

Methyl methacrylate

Maleic anhydride

n-Butyl acetate

Ethyl acetate

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SECTION 8: Exposure controls/personal protection Xylene HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). [Xylene] Absorbed through skin. VLA: 221 mg/m3 8 hours. VLA: 50 ppm 8 hours. Short term: 442 mg/m³ 15 minutes. Short term: 100 ppm 15 minutes. Toluene HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). Absorbed through skin. VLA: 192 mg/m³ 8 hours. VLA: 50 ppm 8 hours. Short term: 384 mg/m³ 15 minutes. Short term: 100 ppm 15 minutes. HG 1218/2006, Annex 1, with subsequent modifications and Ethylbenzene additions (Romania, 3/2021). Absorbed through skin. VLA: 442 ma/m³ 8 hours. VLA: 100 ppm 8 hours. Short term: 884 mg/m3 15 minutes. Short term: 200 ppm 15 minutes. Methyl methacrylate HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). VLA: 205 mg/m3 8 hours. Short term: 410 mg/m³ 15 minutes. VLA: 50 ppm 8 hours. Short term: 100 ppm 15 minutes. HG 1218/2006, Annex 1, with subsequent modifications and Maleic anhydride additions (Romania, 3/2021). VLA: 1 mg/m³ 8 hours. VLA: 0.25 ppm 8 hours. Short term: 3 mg/m³ 15 minutes. Short term: 0.75 ppm 15 minutes. n-Butyl acetate Government regulation SR c. 355/2006 (Slovakia, 9/2020). [Butyl acetates] TWA: 241 mg/m³, (Butyl acetates) 8 hours. TWA: 50 ppm, (Butyl acetates) 8 hours. STEL: 723 mg/m³, (Butyl acetates) 15 minutes. STEL: 150 ppm, (Butyl acetates) 15 minutes. Ethyl acetate Government regulation SR c. 355/2006 (Slovakia, 9/2020). TWA: 734 mg/m³ 8 hours. TWA: 200 ppm 8 hours. STEL: 1468 mg/m³ 15 minutes. STEL: 400 ppm 15 minutes. Government regulation SR c. 355/2006 (Slovakia, 9/2020). **Xylene** [xylene, mixed isomers] Absorbed through skin. TWA: 221 mg/m³, (xylene, mixed isomers) 8 hours. TWA: 50 ppm, (xylene, mixed isomers) 8 hours. STEL: 442 mg/m³, (xylene, mixed isomers) 15 minutes. STEL: 100 ppm, (xylene, mixed isomers) 15 minutes. Toluene Government regulation SR c. 355/2006 (Slovakia, 9/2020). Absorbed through skin. TWA: 192 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 384 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. Government regulation SR c. 355/2006 (Slovakia, 9/2020). Ethylbenzene Absorbed through skin. TWA: 442 mg/m³ 8 hours. TWA: 100 ppm 8 hours. STEL: 884 mg/m³ 15 minutes. STEL: 200 ppm 15 minutes. Government regulation SR c. 355/2006 (Slovakia, 9/2020). Skin Methyl methacrylate sensitiser. STEL: 100 ppm 15 minutes. TWA: 50 ppm 8 hours.

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Government regulation SR c. 355/2006 (Slovakia, 9/2020). Skin

Maleic anhydride

sensitiser. TWA: 0.41 mg/m³ 8 hours. TWA: 0.1 ppm 8 hours. n-Butyl acetate Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). TWA: 241 mg/m³ 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. Ethyl acetate Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). TWA: 734 mg/m³ 8 hours. TWA: 200 ppm 8 hours. KTV: 1468 mg/m³, 4 times per shift, 15 minutes. KTV: 400 ppm, 4 times per shift, 15 minutes. **Xylene** Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). [xylene (mixture of isomers)] Absorbed through skin. TWA: 221 mg/m³ 8 hours. TWA: 50 ppm 8 hours. KTV: 442 mg/m³, 4 times per shift, 15 minutes. KTV: 100 ppm, 4 times per shift, 15 minutes. Toluene Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). Absorbed through skin. TWA: 192 mg/m³ 8 hours. TWA: 50 ppm 8 hours. KTV: 384 mg/m³, 4 times per shift, 15 minutes. KTV: 100 ppm, 4 times per shift, 15 minutes. Regulation on protection of workers from the risks related to Ethylbenzene exposure to chemical substances at work (Slovenia, 5/2021). Absorbed through skin. TWA: 442 mg/m³ 8 hours. TWA: 100 ppm 8 hours. KTV: 884 mg/m³, 4 times per shift, 15 minutes. KTV: 200 ppm, 4 times per shift, 15 minutes. Methyl methacrylate Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). TWA: 210 mg/m³ 8 hours. TWA: 50 ppm 8 hours. KTV: 420 mg/m³, 4 times per shift, 15 minutes. KTV: 100 ppm, 4 times per shift, 15 minutes. Maleic anhydride Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). TWA: 0.41 mg/m³ 8 hours. TWA: 0.1 ppm 8 hours. KTV: 0.41 mg/m³, 4 times per shift, 15 minutes. KTV: 0.1 ppm, 4 times per shift, 15 minutes. National institute of occupational safety and health (Spain, n-Butyl acetate 4/2022). TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. National institute of occupational safety and health (Spain, Ethyl acetate 4/2022). TWA: 200 ppm 8 hours. TWA: 734 mg/m³ 8 hours. STEL: 1468 mg/m³ 15 minutes. STEL: 400 ppm 15 minutes. **Xylene** National institute of occupational safety and health (Spain, 4/2022). [Xylene, mixture of isomers] Absorbed through skin.

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

STEL: 100 ppm 15 minutes. STEL: 442 ma/m³ 15 minutes. Toluene National institute of occupational safety and health (Spain, 4/2022). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 192 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 384 mg/m³ 15 minutes. Ethylbenzene National institute of occupational safety and health (Spain, 4/2022). Absorbed through skin. TWA: 100 ppm 8 hours. TWA: 441 mg/m³ 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m³ 15 minutes. National institute of occupational safety and health (Spain, Methyl methacrylate 4/2022). Skin sensitiser. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. Maleic anhydride National institute of occupational safety and health (Spain, 4/2022). Skin sensitiser. Inhalation sensitiser. TWA: 0.1 ppm 8 hours. TWA: 0.4 mg/m³ 8 hours. Work environment authority Regulation 2018:1 (Sweden, n-Butyl acetate 9/2021). [butyl acetate] TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. Ethyl acetate Work environment authority Regulation 2018:1 (Sweden, 9/2021). TWA: 150 ppm 8 hours. TWA: 550 mg/m³ 8 hours. STEL: 300 ppm 15 minutes. STEL: 1100 mg/m3 15 minutes. Work environment authority Regulation 2018:1 (Sweden, **Xylene** 9/2021). [xylene] 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. Toluene Work environment authority Regulation 2018:1 (Sweden, 9/2021). Absorbed through skin. Ototoxicant. TWA: 50 ppm 8 hours. TWA: 192 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 384 mg/m3 15 minutes. Work environment authority Regulation 2018:1 (Sweden, Ethylbenzene 9/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 220 mg/m³ 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m³ 15 minutes. Methyl methacrylate Work environment authority Regulation 2018:1 (Sweden, 9/2021). Skin sensitiser.

> TWA: 50 ppm 8 hours. TWA: 200 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 400 mg/m³ 15 minutes.

Work environment authority Regulation 2018:1 (Sweden, Maleic anhydride

9/2021). Skin sensitiser. TWA: 0.05 ppm 8 hours. TWA: 0.2 mg/m³ 8 hours. STEL: 0.1 ppm 15 minutes. STEL: 0.4 mg/m³ 15 minutes.

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P-Butyl acetate SUVA (Switzerland, 1/2023).

TWA: 50 ppm 8 hours. TWA: 240 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 720 mg/m³ 15 minutes.

Ethyl acetate SUVA (Switzerland, 1/2023).

STEL: 400 ppm 15 minutes. STEL: 1460 mg/m³ 15 minutes. TWA: 200 ppm 8 hours. TWA: 730 mg/m³ 8 hours.

Xylene SUVA (Switzerland, 1/2023). [Xylenes (all isomers)] Absorbed

through skin.

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

Toluene SUVA (Switzerland, 1/2023). Absorbed through skin.

TWA: 50 ppm 8 hours. TWA: 190 mg/m³ 8 hours. STEL: 200 ppm 15 minutes. STEL: 760 mg/m³ 15 minutes.

Ethylbenzene SUVA (Switzerland, 1/2023). Absorbed through skin.

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

Methyl methacrylate SUVA (Switzerland, 1/2023). Skin sensitiser.

TWA: 50 ppm 8 hours. TWA: 210 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 420 mg/m³ 15 minutes.

Maleic anhydride SUVA (Switzerland, 1/2023). Skin sensitiser.

TWA: 0.1 ppm 8 hours. Form: vapour and aerosols TWA: 0.4 mg/m³ 8 hours. Form: vapour and aerosols STEL: 0.1 ppm 15 minutes. Form: vapour and aerosols STEL: 0.4 mg/m³ 15 minutes. Form: vapour and aerosols

F-Butyl acetate EH40/2005 WELs (United Kingdom (UK), 1/2020).

STEL: 966 mg/m³ 15 minutes. STEL: 200 ppm 15 minutes. TWA: 724 mg/m³ 8 hours. TWA: 150 ppm 8 hours.

Ethyl acetate EH40/2005 WELs (United Kingdom (UK), 1/2020).

STEL: 400 ppm 15 minutes. TWA: 200 ppm 8 hours. STEL: 1468 mg/m³ 15 minutes. TWA: 734 mg/m³ 8 hours.

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

p- or mixed isomers] Absorbed through skin.

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

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

through skin.

STEL: 384 mg/m³ 15 minutes. TWA: 191 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes.

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

through skin.

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

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| Methyl methacrylate | EH40/2005 WELs (United Kingdom (UK), 1/2020). |
|---------------------|--|
| | STEL: 416 mg/m ³ 15 minutes. |
| | STEL: 100 ppm 15 minutes. |
| | TWA: 208 mg/m³ 8 hours. |
| | TWA: 50 ppm 8 hours. |
| Maleic anhydride | EH40/2005 WELs (United Kingdom (UK), 1/2020). Inhalation |
| - | sensitiser. |
| | STEL: 3 mg/m³ 15 minutes. |
| | TWA: 1 mg/m³ 8 hours. |
| cumene | EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed |
| | through skin. |
| | STEL: 250 mg/m ³ 15 minutes. |
| | STEL: 50 ppm 15 minutes. |
| | TWA: 25 ppm 8 hours. |
| | TWA: 125 mg/m³ 8 hours. |
| benzene | EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed |
| | through skin. |
| | TWA: 1 ppm 8 hours. |
| | TWA: 3.25 mg/m ³ 8 hours. |

| Product/ingredient name | Exposure indices | | | | |
|----------------------------|--|--|--|--|--|
| Xylene | VGU BEI (Austria, 9/2020) [xylenes] BEI Fitness: 1000 μg/l, xylene [in blood]. Sampling time: one year BEI Fitness: 1.5 g/l, methylhippuricacid [in urine]. Sampling time: one year. | | | | |
| Toluene | VGU BEI (Austria, 9/2020) BEI Fitness: 250 μg/l, toluene [in blood]. Sampling time: one year BEI Fitness: 0.8 mg/l, o-cresol [in urine]. Sampling time: one year BEI Fitness: 130000 /μl, platelets (non-pathological differential blood count) [in blood]. Sampling time: one year. BEI Fitness: 150000 /μl, platelets [in blood]. Sampling time: one year. BEI Fitness: 3700 to 13000 /μl, leukocytes (non-pathological differential blood count) [in blood]. Sampling time: one year. BEI Fitness: 4000 to 13000 /μl, leukocytes [in blood]. Sampling time: one year. BEI Fitness - men: 3.8 million/μl, erythrocytes [in blood]. Sampling time: one year. BEI Fitness - women: 3.2 million/μl, erythrocytes [in blood]. Sampling time: one year. BEI Fitness - men: 12 g/dl, hemoglobin [in blood]. Sampling time: one year. BEI Fitness - women: 10 g/dl, hemoglobin [in blood]. Sampling time: one year. | | | | |
| No exposure indices known. | | | | | |
| Foluene | Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021) BLV: 1.6 mmol/mmol creatinine, hippuric acid [in urine]. Sampling time: after the end of the exposure or the end of the work shift. | | | | |
| 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 phenylglyoxylic acid – in total [in urine]. Sampling time: after the end of the exposure or the end of the work shift. | | | | |

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| Xvlene | |
|--------|--|
|--------|--|

Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018) [xylene]

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

BEI: 14.13 μmol/l, xylene [in blood]. Sampling time: at the end of the work shift.

BEI: 0.88 mol/mol creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift.

BEI: 1.5 g/g creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift.

Toluene

Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018)

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

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

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

BEI: $10.85 \mu mol/I$, toluene [in blood]. Sampling time: at the end of the work shift.

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

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

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

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

Ethylbenzene

Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018)

BEI: 1.5 mg/l, ethylbenzene [in blood]. Sampling time: during exposure.

BEI: 14.1 µmol/l, ethylbenzene [in blood]. Sampling time: during exposure.

BEI: 1.12 mol/mol creatinine, almond acid [in urine]. Sampling time: at the end of the work shift and at the end of the working

BEI: 1.5 g/g creatinine, almond acid [in urine]. Sampling time: at the end of the work shift and at the end of the working week.

No exposure indices known.



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

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

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

Toluene

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

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

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

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

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

Ethylbenzene

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

Biological limit values: 1100 µmol/mmol creatinine, almond acid

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No exposure indices known.

No exposure indices known.

No exposure indices known.

Xylene

Toluene

Ethylbenzene

No exposure indices known.

Xylene

Toluene

Ethylbenzene

No exposure indices known.

Ifin urine]. Sampling time: end of the shift.

Biological limit values: 1500 mg/g creatinine, almond acid [in urine]. Sampling time: end of the shift.

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

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

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

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

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

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

DFG BEI-values list (Germany, 7/2022) [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.

DFG BEI-values list (Germany, 7/2022) Notes: danger from percutaneous absorption (see p. 211 and p. 228).

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

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

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

TRGS 903 - BEI Values (Germany, 2/2022)

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

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

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

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.

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Xylene

Toluene

Ethylbenzene

No exposure indices known.

Xylene

Toluene

Ethylbenzene

No exposure indices known.

Toluene

No exposure indices known.

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

BEI: 1500 mg/g creatinine, methylhippuric acid [in urine].

Sampling time: at the end of the shift.

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

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

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

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

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

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

BEI: 1110 µmol/mmol creatinine, mandelic acid [in urine]. Sampling time: at the end of the working week; at the end of the

NAOSH (Ireland, 1/2011) [Xylene]

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

NAOSH (Ireland, 1/2011)

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

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

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

NAOSH (Ireland, 1/2011)

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

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

Minister Cabinet Regulations No.325 - BEI (Latvia, 7/2018)

BEI: 0.05 mg/l, toluene [in blood].

BEI: 1.6 g/g creatinine, hippuric acid [in urine]. Sampling time: end of the shift.

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Xvlene

Toluene

Ethylbenzene

Xylene

Toluene

Ethylbenzene

Xylene

Toluene

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

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

Portuguese Institute of Quality (Portugal, 11/2014)

BEI: 0.3 mg/g creatinine, o-cresol [in urine]. Sampling time: end of shift.

BEI: 0.03 mg/l, toluene [in urine]. Sampling time: end of shift. BEI: 0.02 mg/l, toluene [in blood]. Sampling time: end of shift at the end of the workweek.

Portuguese Institute of Quality (Portugal, 11/2014)

BEI: 0.7 g/g creatinine, sum of mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift.

HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2020) [Xylene]

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

HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2020)

OBLV: 3 mg/l, o-cresol [in urine]. Sampling time: end of shift. OBLV: 2 g/l, hippuric acid [in urine]. Sampling time: end of shift.

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.

Government regulation SR c. 355/2006 (Slovakia, 9/2020) [xylene, all isomers]

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

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

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

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

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

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

Government regulation SR c. 355/2006 (Slovakia, 9/2020)

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

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

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

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

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

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

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

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

BLV: 1.5 mg/l, o-cresol [in urine]. Sampling time: at the end of

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exposure or work shift; long-term exposure: after several work shifts.

BLV: 600 µg/l, toluene [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: 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.

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.

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021)

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

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

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

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021)

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

National institute of occupational safety and health (Spain, 4/2022) [Xylenes]

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

National institute of occupational safety and health (Spain, 4/2022)

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

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

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Xylene

Toluene

Ethylbenzene

Xylene

Toluene

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

Ethylbenzene

National institute of occupational safety and health (Spain, 4/2022)

No exposure indices known.

VLB: 700 mg/g creatinine, sum of mandelic acid and acid and phenylglyoxylic acid [in urine]. Sampling time: end of workweek.

Xylene

SUVA (Switzerland, 1/2023) [Xylene, all isomers]

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

Toluene

SUVA (Switzerland, 1/2023)

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

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

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

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

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

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

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

Ethylbenzene

SUVA (Switzerland, 1/2023)

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

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.

Recommended monitoring procedures

: Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

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

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| • | <u> </u> | • | | | |
|---------------|----------|---------------------|------------------------|------------|------------|
| | | Inhalation | | population | |
| | DNEL | Short term | 300 mg/m ³ | General | Systemic |
| | | Inhalation | | population | ' |
| | DNEL | Long term | 300 mg/m ³ | Workers | Local |
| | DINLL | | 300 mg/m | VVOIKCIS | Local |
| | | Inhalation | | 147 | |
| | DNEL | Short term | 600 mg/m ³ | Workers | Local |
| | | Inhalation | | | |
| | DNEL | Short term | 600 mg/m ³ | Workers | Systemic |
| | | Inhalation | | | ' |
| | DNEL | Long term Dermal | 3.4 mg/kg | General | Systemic |
| | DIVLL | Long term Dermai | | | Systemic |
| | DAILE! | | bw/day | population | |
| | DNEL | Long term Dermal | 7 mg/kg | Workers | Systemic |
| | | | bw/day | | |
| | DNEL | Long term | 12 mg/m ³ | General | Systemic |
| | | Inhalation | | population | |
| | DNEL | Long term | 48 mg/m³ | Workers | Systemic |
| | DIVLL | | 40 1119/111 | VVOIKGIS | Oysternic |
| | | Inhalation | | | |
| Ethyl acetate | DNEL | Long term Oral | 4.5 mg/kg | General | Systemic |
| | | | bw/day | population | |
| | DNEL | Long term Dermal | 37 mg/kg | General | Systemic |
| | 1 | 1 - | bw/day | population | - |
| | DNEL | Long term Dermal | 63 mg/kg | Workers | Systemic |
| | | Long tolli Dellilal | bw/day | TTOINGIG | Systemio |
| | D | 1 4 | | 0 | |
| | DNEL | Long term | 367 mg/m ³ | General | Local |
| | 1 | Inhalation | | population | |
| | DNEL | Long term | 367 mg/m ³ | General | Systemic |
| | | Inhalation | | population | |
| | DNEL | Short term | 734 mg/m ³ | General | Local |
| | | Inhalation | 1 0 1 mg/m | population | 2004. |
| | DNEL | Short term | 734 mg/m³ | General | Systemia |
| | DIVEL | | 7 34 Hig/III | | Systemic |
| | | Inhalation | | population | l |
| | DNEL | Long term | 734 mg/m³ | Workers | Local |
| | | Inhalation | | | |
| | DNEL | Long term | 734 mg/m ³ | Workers | Systemic |
| | | Inhalation | | | |
| | DNEL | Short term | 1468 mg/ | Workers | Local |
| | | Inhalation | m³ | | |
| | DNEL | Short term | 1468 mg/ | Workers | Systemic |
| | DINEL | | | VVOIKEIS | Systemic |
| | | Inhalation | m³ | | l |
| Xylene | DNEL | Long term | 65.3 mg/m ³ | | Local |
| | | Inhalation | | population | |
| | DNEL | Short term | 260 mg/m ³ | General | Local |
| | | Inhalation | | population | |
| | DNEL | Short term | 260 mg/m ³ | General | Systemic |
| | | Inhalation | | population | , |
| | DNEL | Long term | 221 mg/m³ | Workers | Local |
| | DIVEL | | 22 i ilig/ili | VVOIRGIS | Local |
| | DAIE | Inhalation | 10 5/ | Conor-I | Cumtare: |
| | DNEL | Long term Oral | 12.5 mg/ | General | Systemic |
| | | [| kg bw/day | population | |
| | DNEL | Long term | 65.3 mg/m ³ | General | Systemic |
| | 1 | Inhalation | | population | |
| | DNEL | Long term Dermal | 125 mg/kg | General | Systemic |
| | 1 | | bw/day | population | - |
| | DNEL | Long term Dermal | 212 mg/kg | Workers | Systemic |
| | | | bw/day | | 2,0.0.1110 |
| | DVIE | Long torm | | Morkers | Systemia |
| | DNEL | Long term | 221 mg/m ³ | Workers | Systemic |
| | | Inhalation | | | <u> </u> |
| | DNEL | Short term | 442 mg/m ³ | Workers | Local |
| | | Inhalation | | | |
| | DNEL | Short term | 442 mg/m ³ | Workers | Systemic |
| | | Inhalation | 3 | | 1 |
| Toluene | DNEL | Long term Oral | 8.13 mg/ | General | Systemic |
| , oldono | | Long tomi Oral | kg bw/day | population | Systemio |
| | DNIE | l ong torm | | | Local |
| | DNEL | Long term | 56.5 mg/m ³ | General | Local |
| | | Inhalation | 505 | population | |
| | DNEL | Long term | 56.5 mg/m ³ | General | Systemic |
| | | • | | | · _ ' |

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| • | • | • | | | |
|---------------------------|-------------|---------------------|------------------------|------------|------------|
| | | Inhalation | | population | |
| | DNEL | Long term | 192 mg/m ³ | Workers | Local |
| | | Inhalation | | | |
| | DNEL | Long term | 192 mg/m ³ | Workers | Systemic |
| | | Inhalation | J | | |
| | DNEL | Long term Dermal | 226 mg/kg | General | Systemic |
| | 5.122 | Zong tom Bomia | bw/day | population | Gyotomio |
| | DNEL | Short term | 226 mg/m ³ | General | Local |
| | DIVLL | Inhalation | 220 mg/m | | Local |
| | DNE | | 000/3 | population | 0 |
| | DNEL | Short term | 226 mg/m ³ | General | Systemic |
| | | Inhalation | | population | |
| | DNEL | Long term Dermal | 384 mg/kg | Workers | Systemic |
| | | | bw/day | | |
| | DNEL | Short term | 384 mg/m ³ | Workers | Local |
| | | Inhalation | | | |
| | DNEL | Short term | 384 mg/m ³ | Workers | Systemic |
| | | Inhalation | J | | |
| Ethylbenzene | DNEL | Long term Oral | 1.6 mg/kg | General | Systemic |
| Zaryiborizorio | 5.122 | Long tonin oran | bw/day | population | Gyotomio |
| | DNEL | Long term | 15 mg/m ³ | General | Systemic |
| | DIVLL | Inhalation | 13 1119/111 | | Oysternic |
| | DNE | | 77 / 3 | population | 0 |
| | DNEL | Long term | 77 mg/m³ | Workers | Systemic |
| | | Inhalation | | | |
| | DNEL | Long term Dermal | 180 mg/kg | Workers | Systemic |
| | | | bw/day | | |
| | DNEL | Short term | 293 mg/m ³ | Workers | Local |
| | | Inhalation | | | |
| | DMEL | Long term | 442 mg/m ³ | Workers | Local |
| | | Inhalation | J | | |
| | DMEL | Short term | 884 mg/m ³ | Workers | Systemic |
| | DIVILL | Inhalation | oo i mg/m | Workoro | Cyclonno |
| Fatty acids, C14-18 and | DNEL | Long term Oral | 1.5 mg/kg | General | Systemic |
| C16-18-unsatd., maleated | DIVLL | Long term Oral | bw/day | | Systemic |
| C 16-16-unsald., malealed | DNEL | Lama tama Dama al | | population | Cyrotomolo |
| | DNEL | Long term Dermal | 1.5 mg/kg | General | Systemic |
| | | | bw/day | population | |
| | DNEL | Long term Dermal | 3 mg/kg | Workers | Systemic |
| | | | bw/day | | |
| Methyl methacrylate | DNEL | Long term Oral | 8.2 mg/kg | General | Systemic |
| | | | bw/day | population | |
| | DNEL | Short term | 208 mg/m ³ | General | Local |
| | | Inhalation | Ü | population | |
| | DNEL | Short term | 416 mg/m ³ | Workers | Local |
| | | Inhalation | | | |
| | DNEL | Short term Dermal | 1.5 mg/cm ² | General | Local |
| | DIVLL | Chort tolli Dellial | 1.0 mg/cm | population | 20001 |
| | DNE | Lama tama Dama al | 1 F m = / = m 2 | | Laggi |
| | DNEL | Long term Dermal | 1.5 mg/cm ² | General | Local |
| | D | 01 | | population | |
| | DNEL | Short term Dermal | 1.5 mg/cm ² | Workers | Local |
| | DNEL | Long term Dermal | 1.5 mg/cm ² | Workers | Local |
| | DNEL | Long term Dermal | 8.2 mg/kg | General | Systemic |
| | | | bw/day | population | |
| | DNEL | Long term Dermal | 13.67 mg/ | Workers | Systemic |
| | | | kg bw/day | | |
| | DNEL | Long term | 74.3 mg/m ³ | General | Systemic |
| | D. 1LL | Inhalation | mg/m | population | Cyclonic |
| | DNEL | | 104 mg/m ³ | General | Local |
| | DINCL | Long term | 104 mg/m ³ | | LUGAI |
| | ראובי | Inhalation | 000 / 2 | population | 1 1 |
| | DNEL | Long term | 208 mg/m ³ | Workers | Local |
| | - · · - · | Inhalation | | | |
| | DNEL | Long term | 348.4 mg/ | Workers | Systemic |
| | | Inhalation | m³ | | |
| Maleic anhydride | DNEL | Long term | 0.081 mg/ | Workers | Local |
| | | Inhalation | m³ | | |
| | DNEL | Long term | 0.081 mg/ | Workers | Systemic |
| | | Inhalation | m³ | | |
| | DNEL | Short term | 0.2 mg/m ³ | Workers | Local |
| | | 1 | ۰۰۰ ارق | | |

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| SECTION 8: Exposure controls/personal protection | | | | | | | |
|--|---------------------------|------------------------|-----------------------|----------|--|--|--|
| DNE | Inhalation L Short term | 0.2 mg/m³ | Workers | Systemic | | | |
| DIVE | Inhalation | 0.2 mg/m² | VVOIKEIS | Systemic | | | |
| DNE | L Long term Inhalation | 0.05 mg/m ³ | General population | Systemic | | | |
| DNE | | 0.06 mg/ kg bw/day | General population | Systemic | | | |
| DNE | Long term Inhalation | 0.08 mg/m ³ | | Local | | | |
| DNE | Short term Oral | 0.1 mg/kg bw/day | General population | Systemic | | | |
| DNE | Short term Dermal | 0.1 mg/kg bw/day | General population | Systemic | | | |
| DNE | Long term Dermal | 0.1 mg/kg bw/day | General population | Systemic | | | |
| DNE | Short term Dermal | 0.2 mg/kg bw/day | Workers | Systemic | | | |
| DNE | Long term Dermal | 0.2 mg/kg bw/day | Workers | Systemic | | | |
| | | 1 | | | | | |

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

Hygiene measures

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

Eye/face protection

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

Skin protection Hand protection

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

Recommendations: Wear suitable gloves tested to EN374.

- < 1 hour (breakthrough time): Nitrile gloves. thickness > 0.3 mm
- 1 4 hours (breakthrough time): 4H / Silver Shield® gloves.

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.

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SECTION 8: Exposure controls/personal protection

Other skin protection

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

Respiratory protection

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

Filter type: A

Filter type (spray application): A P

Environmental exposure controls

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

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Appearance

Physical state: Liquid.Colour: Colourless.Odour: SlightOdour threshold: Not available.

Melting point/freezing point

.

: Not available.

Initial boiling point and

boiling range

| Ingredient name | °C | °F | Method |
|-----------------|-------|-------|--------|
| Ethyl acetate | 77.1 | 170.8 | |
| Toluene | 110.6 | 231.1 | |

Flammability : Not available.

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

limitUpper: 11.5% (ethyl acetate)Flash point: Closed cup: -1°C (30.2°F)

Auto-ignition temperature :

| Ingredient name | °C | °F | Method |
|--------------------------------------|-----|-----|---------|
| EO bis(benztriazolyl)phenylpropionat | 405 | 761 | |
| n-Butyl acetate | 415 | 779 | EU A.15 |

Decomposition temperature

: Not available.: Not applicable.

Viscosity

: Not available.

Solubility(ies)

.

Not available.

Solubility in water : Not available.

Partition coefficient: n-octanol/ : Not applicable.

water

pН

Vapour pressure

| | Vapour Pressure at 20°C | | | Vapour pressure at 50°C | | |
|-----------------|-------------------------|------|--------|-------------------------|-----|--------|
| Ingredient name | mm Hg | kPa | Method | mm Hg | kPa | Method |
| Ethyl acetate | 81.59163 | 10.9 | | | | |
| Toluene | 23.17 | 3.1 | | | | |

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SECTION 9: Physical and chemical properties

Relative density: Not available.Density: 1 g/cm³Vapour density: Not available.Explosive properties: Not available.Oxidising properties: Not available.

Particle characteristics

Median particle size : Not applicable.

9.2 Other information

No additional information.

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 |
|-------------------------------|---------------------------|---------|-------------------------|----------|
| <mark>p</mark> -Butyl acetate | LC50 Inhalation Vapour | Rat | 0.74 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | 14112 mg/kg | - |
| | LD50 Oral | Rat | 10760 mg/kg | - |
| Ethyl acetate | LD50 Oral | Rat | 5620 mg/kg | - |
| Xylene | LC50 Inhalation Vapour | Rat | 21.7 mg/l | 4 hours |
| | LD50 Oral | Rat | 4300 mg/kg | - |
| Toluene | LC50 Inhalation Vapour | Rat | 49 g/m³ | 4 hours |
| | LD50 Oral | Rat | 636 mg/kg | - |
| Ethylbenzene | LC50 Inhalation Dusts and | Rat | 29000 mg/l | 4 hours |
| | mists | | | |
| | LD50 Dermal | Rabbit | 15400 mg/kg | - |
| | LD50 Oral | Rat | 3500 mg/kg | - |
| Methyl methacrylate | LC50 Inhalation Vapour | Rat | 78000 mg/m ³ | 4 hours |
| | LD50 Dermal | Rabbit | >5 g/kg | - |
| | LD50 Oral | Rat | 7872 mg/kg | - |
| Maleic anhydride | LD50 Dermal | Rabbit | 2620 mg/kg | - |
| | LD50 Oral | Rat | 400 mg/kg | - |

Conclusion/Summary

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

Acute toxicity estimates

| Route | ATE value | |
|---|------------------------------|--|
| of the state of t | 10904.04 mg/kg 85.74 mg/l | |

Irritation/Corrosion

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SECTION 11: Toxicological information

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|-------------------------------|--------------------------|---------|-------|---------------|-------------|
| <mark>ଜ</mark> -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 | - |
| | | | | mg | |
| Toluene | Eyes - Mild irritant | Rabbit | - | 0.5 minutes | - |
| | | | | 100 mg | |
| | Eyes - Mild irritant | Rabbit | - | 870 ug | - |
| | Eyes - Severe irritant | Rabbit | - | 24 hours 2 | - |
| | | | | mg | |
| | Skin - Mild irritant | Pig | - | 24 hours 250 | - |
| | | | | uL | |
| | Skin - Mild irritant | Rabbit | - | 435 mg | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 20 | - |
| | | | | mg | |
| | Skin - Moderate irritant | Rabbit | - | 500 mg | - |
| Ethylbenzene | Eyes - Severe irritant | Rabbit | - | 500 mg | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 15 | - |
| | | | | mg | |
| Maleic anhydride | Eyes - Severe irritant | Rabbit | - | 1 % | - |

Conclusion/Summary

Sensitisation

: Causes skin irritation.

Conclusion/Summary

: May cause an allergic skin reaction.

Mutagenicity

Conclusion/Summary

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

Carcinogenicity

Conclusion/Summary

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

Reproductive toxicity

Conclusion/Summary

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

Teratogenicity

Conclusion/Summary

: Suspected of damaging the unborn child.

Specific target organ toxicity (single exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|-------------------------|------------|-------------------|------------------------------|
| n-Butyl acetate | Category 3 | - | Narcotic effects |
| Ethyl acetate | Category 3 | - | Narcotic effects |
| Xylene | Category 3 | - | Respiratory tract irritation |
| Toluene | Category 3 | - | Narcotic effects |
| Methyl methacrylate | Category 3 | - | Respiratory tract irritation |

Specific target organ toxicity (repeated exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|-------------------------|------------|-------------------|--------------------|
| Xylene | Category 2 | oral, inhalation | - |
| Toluene | Category 2 | - | - |
| Ethylbenzene | Category 2 | oral, inhalation | hearing organs |
| Maleic anhydride | Category 1 | inhalation | respiratory system |

Aspiration hazard

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SECTION 11: Toxicological information

| Product/ingredient name | Result |
|-------------------------|--------------------------------|
| Xylene | ASPIRATION HAZARD - Category 1 |
| Toluene | ASPIRATION HAZARD - Category 1 |
| Ethylbenzene | ASPIRATION HAZARD - Category 1 |

Information on likely routes : Not available.

of exposure

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

Skin contact : Causes skin irritation. May cause an allergic skin reaction. : Can cause central nervous system (CNS) depression. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness reduced foetal weight increase in foetal deaths skeletal malformations

Skin contact : Adverse symptoms may include the following:

> irritation redness

reduced foetal weight increase in foetal deaths skeletal malformations

Ingestion : Adverse symptoms may include the following:

> reduced foetal weight increase in foetal deaths skeletal malformations

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

Short term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

: Not available. **Conclusion/Summary**

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

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

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low levels.

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

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SECTION 11: Toxicological information

Reproductive toxicity : Suspected of damaging the unborn child.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
|-------------------------|-------------------------------------|--|----------|
| 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 |
| Ethyl acetate | Acute EC50 2500000 µg/l Fresh water | Algae - Selenastrum sp. | 96 hours |
| | Acute LC50 750000 µg/l Fresh water | Crustaceans - Gammarus pulex | 48 hours |
| | Acute LC50 154000 µg/l Fresh water | Daphnia - Daphnia cucullata | 48 hours |
| | Acute LC50 212500 µg/l Fresh water | Fish - Heteropneustes fossilis | 96 hours |
| | Chronic NOEC 12 mg/l Fresh water | Daphnia - <i>Daphnia magna</i> | 21 days |
| | Chronic NOEC 75.6 mg/l Fresh water | Fish - Pimephales promelas - | 32 days |
| | | Embryo | |
| Toluene | Acute EC50 12500 μg/l Fresh water | Algae - Pseudokirchneriella | 72 hours |
| | | subcapitata | |
| | Acute EC50 11600 μg/l Fresh water | Crustaceans - Gammarus | 48 hours |
| | | pseudolimnaeus - Adult | |
| | Acute EC50 5.56 mg/l Fresh water | Daphnia - <i>Daphnia magna</i> - | 48 hours |
| | | Neonate | |
| | Acute LC50 5500 µg/l Fresh water | Fish - Oncorhynchus kisutch - | 96 hours |
| | | Fry | |
| | Chronic NOEC 1000 µg/l Fresh water | Daphnia - <i>Daphnia magna</i> | 21 days |
| Methyl methacrylate | Acute LC50 130000 μg/l Fresh water | Fish - Pimephales promelas - | 96 hours |
| | | Adult | |
| Maleic anhydride | Acute LC50 230000 μg/l Fresh water | Fish - <i>Gambusia affinis</i> - Adult | 96 hours |

Conclusion/Summary

: Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

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

12.3 Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|-------------------------------|--------|-------------|-----------|
| <mark>ଜ</mark> -Butyl acetate | 2.3 | - | Low |
| Ethyl acetate | 0.68 | 30 | Low |
| Xylene | 3.12 | 8.1 to 25.9 | Low |
| Toluene | 2.73 | 90 | Low |
| Ethylbenzene | 3.6 | - | Low |
| Methyl methacrylate | 1.38 | - | Low |
| Maleic anhydride | -2.78 | - | 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.

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SECTION 12: Ecological information

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal

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

European waste catalogue (EWC)

: 08.01.11

Packaging

Methods of disposal

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

Special precautions

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

SECTION 14: Transport information

| | ADR/RID | ADN | IMDG | IATA |
|------------------------------------|----------------|----------------|----------------|----------------|
| 14.1 UN number or ID number | ☑ N1263 | ☑ N1263 | ☑ N1263 | Ø N1263 |
| 14.2 UN proper shipping name | PAINT | PAINT | PAINT | PAINT |
| 14.3 Transport hazard class(es) | 3 | 3 | 3 | 3 |
| 14.4 Packing group | II | II | II | II |
| 14.5 Environmental hazards | No. | Yes. | No. | No. |

Additional information

ADR/RID : <u>Special provisions</u> 640 (C)

Tunnel code (D/E)

ADN : The product is only regulated as an environmentally hazardous substance when transported in tank vessels.

Special provisions 640 (C)

14.6 Special precautions for : user

: **Transport within user's premises**: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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SECTION 14: Transport information

14.7 Maritime transport in

bulk according to IMO instruments

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

SECTION 15: Regulatory information

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

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

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

| Product/ingredient name | % | Designation [Usage] |
|---------------------------|-----------|---------------------|
| ALPOCRYL KLARLACK 5454-15 | ≥90 | 3 |
| Toluene | ≥10 - ≤25 | 48 |

Labelling :

Other EU regulations

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Air

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Water

Explosive precursors : Not applicable.

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category

P5c

National regulations

<u>Austria</u>

VbF class : A I

Very dangerous flammable liquid.

Limitation of the use of

organic solvents

: Permitted.

Czech Republic

Storage code : I

Denmark

Danish fire class : I-1

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SECTION 15: Regulatory information

Executive Order No. 1795/2015

| Ingredient name | Annex I Section A | Annex I Section B |
|----------------------|-------------------|-------------------|
| E thylbenzene | Listed | - |

MAL-code

: 4-5

Protection based on MAL

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

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

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

MAL-code: 4-5

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

Protective clothing must be worn.

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

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

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

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

When spraying in existing* spray booths, if the operator is outside the spray zone. During non-atomising spraying in existing* facilities of the combined-cabin, spraycabin and spray-booth type where the operator is working inside the spray zone. During downtimes, cleaning and repair in closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents.

- Air-supplied full mask and protective clothing must be worn.

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

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

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

Polishing: When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn.

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SECTION 15: Regulatory information

Caution The regulations contain other stipulations in addition to the above.

*See Regulations.

Low-boiling liquids

: This product contains low-boiling point liquids. Any respiratory protective equipment

should be air-fed.

Restrictions on use

: Not to be used by professional users below 18 years of age. See the National

Working Environment Authorities Executive Order regarding Young People At Work.

List of undesirable

substances

: Listed

Carcinogenic waste

: Waste containers must be labeled: Contains a substance or substances regulated

by Danish working environment legislation on cancer risks.

Finland

France

Social Security Code, Articles L 461-1 to L 461-7 : n-Butyl acetate **RG 84** Ethyl acetate **RG 84**

Xylene RG 4bis. RG 84 Toluene RG 4bis, RG 84

Ethylbenzene **RG 84** Methyl methacrylate **RG 82** Maleic anhydride **RG 66**

Reinforced medical

surveillance

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

medical surveillance: not applicable

Germany

Storage class (TRGS 510) : 3 **Hazardous incident ordinance**

This product is controlled under the Germany Hazardous Incident Ordinance.

Danger criteria

| Category | Reference number |
|----------|------------------|
| P5c | 1.2.5.3 |

Hazard class for water : 3

Technical instruction on air quality control

: TA-Luft Number 5.2.5: 78.2%

TA-Luft Class I - Number 5.2.5: 12.8%

Italy

D.Lgs. 152/06 : Not determined.

Netherlands

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

| Ingredient name | Carcinogen | • | Reproductive toxicity - Fertility | | Harmful via breastfeeding |
|-----------------|------------|---|-----------------------------------|---------------|---------------------------|
| xylene | - | - | - | Development 2 | - |
| tolueen | - | - | - | Development 2 | - |

Water Discharge Policy (ABM)

: A(3) Hazardous for aquatic organisms, may have long-term hazardous effects in aquatic environment. Decontamination effort: A

Norway Sweden

Flammable liquid class

: 1

(SRVFS 2005:10)

Switzerland

VOC content : VOC (w/w): 73.8%

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

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SECTION 15: Regulatory information

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

15.2 Chemical safety

assessment

acronyms

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

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and

: ATE = Acute Toxicity Estimate

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

1272/2008]

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

EUH statement = CLP-specific Hazard statement

N/A = Not available

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

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

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

| Classification | Justification | | |
|-------------------------|-----------------------|--|--|
| Flam. Liq. 2, H225 | On basis of test data | | |
| Skin Irrit. 2, H315 | Calculation method | | |
| Eye Irrit. 2, H319 | Calculation method | | |
| Skin Sens. 1, H317 | Calculation method | | |
| Repr. 2, H361d | Calculation method | | |
| STOT SE 3, H336 | Calculation method | | |
| STOT RE 2, H373 | Calculation method | | |
| Aquatic Chronic 3, H412 | Calculation method | | |

Full text of abbreviated H statements

| H225 | Highly flammable liquid and vapour. |
|-------|--|
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H361d | Suspected of damaging the unborn child. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| | |

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SECTION 16: Other information

H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

EUH071 Corrosive to the respiratory tract.

Full text of classifications [CLP/GHS]

Acute Tox. 4 ACUTE TOXICITY - Category 4

Aquatic Acute 1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

Asp. Tox. 1 ASPIRATION HAZARD - Category 1

Eye Dam. 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Flam. Liq. 2
FlamMABLE LIQUIDS - Category 2
Flam. Liq. 3
FLAMMABLE LIQUIDS - Category 3
Repr. 2
Resp. Sens. 1
Skin Corr. 1B
Skin Irrit. 2
FLAMMABLE LIQUIDS - Category 2
REPRODUCTIVE TOXICITY - Category 2
RESPIRATORY SENSITISATION - Category 1
SKIN CORROSION/IRRITATION - Category 2

Skin Sens. 1 SKIN SENSITISATION - Category 1
Skin Sens. 1A SKIN SENSITISATION - Category 1A

STOT RE 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
STOT RE 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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ALPOCRYL KLARLACK 5454-15_FARBLOS- FARBLOS-INCOLORE-COLOURLESS

INCOLORE-COLOURLESS

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 quarantee of the product's properties.

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