SAFETY DATA SHEET



1/35

RAPIFILL 1080-00 - All variants

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

1.1 Product identifier

Product name : RAPIFILL 1080-00 - All variants

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

Product use : Paint.

1.3 Details of the supplier of the safety data sheet

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

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

responsible for this SDS

National contact

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

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : In an emergency, call 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition: Mixture

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

Flam. Liq. 3, H226 Skin Sens. 1, H317 STOT SE 3, H336 Aquatic Chronic 3, H412

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

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

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

2.2 Label elements

Hazard pictograms





Signal word : Warning

Hazard statements : H226 - Flammable liquid and vapour.

H317 - May cause an allergic skin reaction. H336 - May cause drowsiness or dizziness.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention : P280 - Wear protective gloves.

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

sources. No smoking.

P273 - Avoid release to the environment.

Response : P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.

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

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SECTION 2: Hazards identification

Disposal

: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazardous ingredients

Contains: n-Butyl acetate; Fatty acids, C14-18 and C16-18-unsatd., maleated; Methyl methacrylate and Maleic anhydride

Supplemental label elements

: Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

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

2.3 Other hazards

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

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

Other hazards which do not result in classification

RAPIFILL 1080-00 - All variants

: None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

| Product/ingredient name | Identifiers | % | Classification | Specific Conc. Limits, M-factors and ATEs | Туре |
|-------------------------------------|--|-----------|--|---|---------|
| n-Butyl acetate | REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1 | ≥10 - ≤25 | Flam. Liq. 3, H226 STOT SE 3, H336 EUH066 | - | [1] [2] |
| titanium dioxide | REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7 | ≤10 | Carc. 2, H351 (inhalation) | - | [1] [*] |
| Xylene | REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9 | <10 | Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 (oral, inhalation) Asp. Tox. 1, H304 | ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/ I | [1] [2] |
| 2-Methoxy-1-methylethyl acetate | REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7 | ≤10 | Flam. Liq. 3, H226 | - | [2] |
| 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/ | [1] [2] |
| Quaternary ammonium compounds, coco | REACH #: 01-2119977130-42 | <1 | Acute Tox. 4, H302 Acute Tox. 3, H311 | ATE [Oral] = 500 mg/kg | [1] |

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SECTION 3: Composition/information on ingredients

| • | | | <u> </u> | | |
|--|---|------|---|--|---------|
| alkylethyldimethyl, Et sulfates | EC: 269-662-8 CAS: 68308-64-5 | | Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 | ATE [Dermal] = 300 mg/kg M [Acute] = 10 M [Chronic] = 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 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.

Type

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

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact

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

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.

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SECTION 4: First aid measures

Ingestion

: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. 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 : No specific data.

Inhalation : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Skin contact: Adverse symptoms may include the following:

irritation redness

Ingestion : No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

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

quantities have been ingested or inhaled.

Specific treatments: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing

media

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

Unsuitable extinguishing

media

: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

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

Hazardous combustion products

: Decomposition products may include the following materials: carbon dioxide

carbon 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.

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SECTION 5: Firefighting measures

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

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

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

6.2 Environmental precautions

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

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.

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

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SECTION 7: Handling and storage

Advice on general occupational hygiene

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

7.2 Conditions for safe storage, including any incompatibilities

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

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

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

| Product/ingredient name | Exposure limit values |
|-----------------------------------|---|
| No exposure limit value known. | |
| n-Butyl acetate | Limit values (Belgium, 5/2021). [butyl acetate, all isomers] |
| | STEL: 712 mg/m³ 15 minutes. |
| | STEL: 150 ppm 15 minutes. |
| | TWA: 238 mg/m³ 8 hours. |
| | TWA: 50 ppm 8 hours. |
| 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. |
| 2-Methoxy-1-methylethyl acetate | STEL: 442 mg/m³ 15 minutes. Limit values (Belgium, 5/2021). Absorbed through skin. |
| 2-inethoxy-1-inethylethyl acetate | TWA: 50 ppm 8 hours. |
| | TWA: 30 ppm o flours. TWA: 275 mg/m³ 8 hours. |
| | STEL: 100 ppm 15 minutes. |
| | STEL: 550 mg/m³ 15 minutes. |
| Ethylbenzene | Limit values (Belgium, 5/2021). Absorbed through skin. |
| | TWA: 20 ppm 8 hours. |
| | TWA: 87 mg/m ³ 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. |
| | |

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Limit values (Belgium, 5/2021). Maleic anhydride TWA: 0.0025 ppm 8 hours. Form: vapour and aerosol TWA: 0.01 mg/m³ 8 hours. Form: vapour and aerosol Ministry of Labour and Social Policy and the Ministry of n-Butyl acetate 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. Ministry of Labour and Social Policy and the Ministry of **Xylene** 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 2-Methoxy-1-methylethyl acetate Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed through skin. Limit value 8 hours: 275 mg/m³ 8 hours. Limit value 15 min: 550 mg/m³ 15 minutes. Limit value 15 min: 100 ppm 15 minutes. Limit value 8 hours: 50 ppm 8 hours. Ethylbenzene Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed through skin. Limit value 8 hours: 435 mg/m³ 8 hours. Limit value 15 min: 545 mg/m³ 15 minutes. Methyl methacrylate 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. Maleic anhydride 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. Ministry of Economy, Labour and Entrepreneurship ELV/ n-Butyl acetate STELV (Croatia, 1/2021). STELV: 723 mg/m³ 15 minutes. STELV: 150 ppm 15 minutes. ELV: 241 mg/m³ 8 hours. ELV: 50 ppm 8 hours. **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/ 2-Methoxy-1-methylethyl acetate STELV (Croatia, 1/2021). Absorbed through skin. STELV: 550 mg/m3 15 minutes. STELV: 100 ppm 15 minutes. ELV: 275 mg/m3 8 hours. ELV: 50 ppm 8 hours. Ministry of Economy, Labour and Entrepreneurship ELV/ Ethylbenzene 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. Methyl methacrylate Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). Absorbed through skin. Skin sensitiser.

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STELV: 100 ppm 15 minutes.

Maleic anhydride ELV: 50 ppm 8 hours.

Ministry of Economy.

Ministry of Economy, Labour and Entrepreneurship ELV/ 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.

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.

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

through skin.

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

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

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.

No exposure limit value known.

No exposure limit value known.

No exposure limit value known.

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.

Xylene EU OEL (Europe, 1/2022). [xylene, mixed isomers pure]

Absorbed through skin. Notes: list of indicative occupational

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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.

2-Methoxy-1-methylethyl acetate EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list

of indicative occupational exposure limit values

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

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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. Institute of Occupational Health, Ministry of Social Affairs **Xylene** (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. Institute of Occupational Health, Ministry of Social Affairs 2-Methoxy-1-methylethyl acetate (Finland, 10/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 270 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m³ 15 minutes. Institute of Occupational Health, Ministry of Social Affairs Ethylbenzene (Finland, 10/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 220 mg/m³ 8 hours. STEL: 200 ppm 15 minutes. STEL: 880 mg/m³ 15 minutes. Methyl methacrylate Institute of Occupational Health, Ministry of Social Affairs (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. Institute of Occupational Health, Ministry of Social Affairs Maleic anhydride (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 n-Butyl acetate 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: 241 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m3 15 minutes. **Xylene** Ministry of Labor (France, 10/2022). [xylenes, mixed isomers, pure] Absorbed through skin. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL: 442 mg/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. 2-Methoxy-1-methylethyl acetate Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL: 550 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 275 mg/m³ 8 hours. TWA: 50 ppm 8 hours. 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.

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STEL: 442 mg/m³ 15 minutes.

SECTION 8: Exposure controls/personal protection 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. DFG MAC-values list (Germany, 7/2022). n-Butyl acetate 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. **Xylene** TRGS 900 OEL (Germany, 6/2022). [xylene] Absorbed through skin. 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. 2-Methoxy-1-methylethyl acetate TRGS 900 OEL (Germany, 6/2022). TWA: 270 mg/m³ 8 hours. PEAK: 270 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. PEAK: 50 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). TWA: 50 ppm 8 hours. PEAK: 50 ppm, 4 times per shift, 15 minutes. TWA: 270 mg/m³ 8 hours. PEAK: 270 mg/m³, 4 times per shift, 15 minutes. Ethylbenzene TRGS 900 OEL (Germany, 6/2022). Absorbed through skin. TWA: 88 mg/m³ 8 hours. PEAK: 176 mg/m³ 15 minutes. TWA: 20 ppm 8 hours. PEAK: 40 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). Absorbed through 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.

Maleic anhydride TRGS 900 OEL (Germany, 6/2022). Skin sensitiser. Inhalation Date of issue/Date of revision : 20/12/2023 10/35 Date of previous issue Version: 1

TWA: 210 mg/m³ 8 hours.

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PEAK: 100 ppm, 4 times per shift, 15 minutes.

PEAK: 420 mg/m³, 4 times per shift, 15 minutes. PEAK: 100 ml/m³, 4 times per shift, 15 minutes.

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. PEAK: 0.02 ppm, 4 times per shift, 15 minutes.

No exposure limit value known.

n-Butyl acetate

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

Inhalation sensitiser.

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

Xylene

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

of isomers1 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.

2-Methoxy-1-methylethyl acetate

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

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

Ethylbenzene

5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed through skin. Skin sensitiser. Inhalation sensitiser.

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

Methyl methacrylate

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

Maleic anhydride

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

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.

n-Butyl acetate

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

[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.

Xylene

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

[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.

2-Methoxy-1-methylethyl acetate

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

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Absorbed through skin.

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

Ethylbenzene

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

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.

Methyl methacrylate

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

Absorbed through skin. Skin sensitiser.

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.

Xylene

OELV-15min: 723 mg/m³ 15 minutes.

NAOSH (Ireland, 5/2021). [xylene mixed isomers] Absorbed 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.

2-Methoxy-1-methylethyl acetate

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

derived Occupational Exposure Limit Values

OELV-8hr: 50 ppm 8 hours. OELV-8hr: 275 mg/m³ 8 hours. OELV-15min: 100 ppm 15 minutes. OELV-15min: 550 mg/m³ 15 minutes.

Ethylbenzene

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

derived Occupational Exposure Limit Values

OELV-8hr: 100 ppm 8 hours.
OELV-8hr: 442 mg/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.

Maleic anhydride

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

phases.

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.

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.

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

2-Methoxy-1-methylethyl acetate 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: 275 mg/m³ 8 hours. Short Term: 100 ppm 15 minutes. Short Term: 550 mg/m³ 15 minutes.

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.

No exposure limit value known.

No exposure limit value known.

n-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.

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.

2-Methoxy-1-methylethyl acetate Grand-Duchy Regulation 2016. Chemical agents. Annex I

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

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

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

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

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.

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.

Xylene EU OEL (Europe, 1/2022). [xylene, mixed isomers pure]

Absorbed through skin. Notes: list of indicative occupational

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exposure limit values TWA: 50 ppm 8 hours. TWA: 221 mg/m³ 8 hours.

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STEL: 100 ppm 15 minutes. STEL: 442 mg/m³ 15 minutes. EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list 2-Methoxy-1-methylethyl acetate of indicative occupational exposure limit values TWA: 50 ppm 8 hours. TWA: 275 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m³ 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 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. **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. Ministry of Social Affairs and Employment, Legal limit values 2-Methoxy-1-methylethyl acetate (Netherlands, 12/2022). OEL, 8-h TWA: 550 mg/m3 8 hours. OEL, 8-h TWA: 100 ppm 8 hours. Ethylbenzene Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). Absorbed through skin. OEL, 8-h TWA: 215 mg/m³ 8 hours. STEL,15-min: 430 mg/m³ 15 minutes. STEL,15-min: 97.3 ppm 15 minutes. OEL, 8-h TWA: 48.6 ppm 8 hours. Ministry of Social Affairs and Employment, Legal limit values Methyl methacrylate (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. n-Butyl acetate 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. **Xylene** FOR-2011-12-06-1358 (Norway, 12/2022). [Xylene, all isomers] Absorbed through skin. Notes: indicative limit value TWA: 25 ppm 8 hours. TWA: 108 mg/m³ 8 hours. 2-Methoxy-1-methylethyl acetate FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through skin. Notes: indicative limit value TWA: 50 ppm 8 hours. TWA: 270 mg/m³ 8 hours. Ethylbenzene FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through skin. Carcinogen. Notes: indicative limit value

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Methyl methacrylate

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

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.

Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). [xylene - mixed isomers (1,2-, 1,3-, 1,4-)] Absorbed through skin.

TWA: 100 mg/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: 260 mg/m³ 8 hours. STEL: 520 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). [Xylene]

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

EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values

n-Butyl acetate

Xylene

2-Methoxy-1-methylethyl acetate

Ethylbenzene

Methyl methacrylate

Maleic anhydride

n-Butyl acetate

Xylene

2-Methoxy-1-methylethyl acetate

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TWA: 50 ppm 8 hours. TWA: 275 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m³ 15 minutes. Portuguese Institute of Quality (Portugal, 11/2014). Ethylbenzene TWA: 20 ppm 8 hours. Portuguese Institute of Quality (Portugal, 11/2014). Skin Methyl methacrylate sensitiser. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. Maleic anhydride 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 n-Butyl acetate 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 **Xylene** 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. 2-Methoxy-1-methylethyl acetate HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). Absorbed through skin. VLA: 275 mg/m³ 8 hours. VLA: 50 ppm 8 hours. Short term: 550 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 mg/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.

n-Butyl acetate

Xylene

2-Methoxy-1-methylethyl acetate

VLA: 0.25 ppm 8 hours.

Short term: 3 mg/m³ 15 minutes. Short term: 0.75 ppm 15 minutes.

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.

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

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

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Absorbed through skin. TWA: 275 mg/m³ 8 hours.

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TWA: 50 ppm 8 hours.

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

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

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

sensitiser.

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

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

sensitiser.

TWA: 0.41 mg/m³ 8 hours. TWA: 0.1 ppm 8 hours.

Regulation on protection of workers from the risks related to n-Butyl acetate 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.

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.

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

Absorbed through skin. TWA: 275 mg/m³ 8 hours.

TWA: 50 ppm 8 hours. KTV: 550 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 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.

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.

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

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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.

Methyl methacrylate

Ethylbenzene

Xylene

2-Methoxy-1-methylethyl acetate

Ethylbenzene

Methyl methacrylate

Maleic anhydride

No exposure limit value known.

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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. **Xylene** Work environment authority Regulation 2018:1 (Sweden, 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. 2-Methoxy-1-methylethyl acetate Work environment authority Regulation 2018:1 (Sweden, 9/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 275 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m³ 15 minutes. Ethylbenzene Work environment authority Regulation 2018:1 (Sweden, 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. Work environment authority Regulation 2018:1 (Sweden, Methyl methacrylate 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. Maleic anhydride Work environment authority Regulation 2018:1 (Sweden, 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. n-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. **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. 2-Methoxy-1-methylethyl acetate SUVA (Switzerland, 1/2023). TWA: 50 ppm 8 hours. TWA: 275 mg/m³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 275 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 18/35 : 20/12/2023

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

No exposure limit value known.

Biological exposure indices

| Product/ingredient name | Exposure indices |
|----------------------------|--|
| No exposure indices known. | |
| No exposure indices known. | |
| 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. |
| Xylene | 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. |
| 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 week. BEI: 1.5 g/g creatinine, almond acid [in urine]. Sampling time: at the end of the work shift and at the end of the working week. |
| No exposure indices known. | |
| Xylene | 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. |
| Ethylbenzene | Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) BEI: 5.2 mmol/l, mandelic acid [in urine]. Sampling time: after work shift at the end of the working week or exposure period. |
| No exposure indices known. | J J J J J J J J J J J J J J J J J J J |
| Xylene | DFG BEI-values list (Germany, 7/2022) [Xylene (all isomers)] Notes: danger from percutaneous absorption (see p. 211 and p. 228). BEI: 2000 mg/l, methylhippuric acid (toluric acid) (all isomers) [in urine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 2/2022) [Xylene (all isomers)] BEI: 2000 mg/l, methylhippuric acid [in urine]. Sampling time: end |

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Ethylbenzene

No exposure indices known.

Xylene

Ethylbenzene

No exposure indices known.

Xylene

Ethylbenzene

No exposure indices known.

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.

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

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

NAOSH (Ireland, 1/2011) [Xylene]

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

NAOSH (Ireland, 1/2011)

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

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

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Xylene

Ethylbenzene

Xylene

Ethylbenzene

Xylene

Ethylbenzene

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

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

Portuguese Institute of Quality (Portugal, 11/2014)

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

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

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Xylene

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

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

Ethylbenzene

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

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

No exposure indices known.

No exposure indices known.

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.

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.

No exposure indices known.

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 | Type | Exposure | Value | Population | Effects |
|-------------------------|------|--------------------------|------------------------|--------------------|------------|
| n-Butyl acetate | DNEL | Short term Oral | 2 mg/kg | General | Systemic |
| | | | bw/day | population | |
| | DNEL | Long term Oral | 2 mg/kg | General | Systemic |
| | | | bw/day | population | |
| | DNEL | Short term Dermal | 6 mg/kg | General | Systemic |
| | | | bw/day | population | |
| | DNEL | Short term Dermal | 11 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term | 35.7 mg/m ³ | General | Local |
| | | Inhalation | | population | |
| | DNEL | Short term | 300 mg/m ³ | General | Local |
| | | Inhalation | | population | |
| | DNEL | Short term | 300 mg/m ³ | General | Systemic |
| | | Inhalation | | population | |
| | DNEL | Long term | 300 mg/m ³ | Workers | Local |
| | | Inhalation | | | |
| | DNEL | Short term | 600 mg/m ³ | Workers | Local |
| | | Inhalation | | | |
| | DNEL | Short term Inhalation | 600 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Dermal | 3.4 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 7 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term | 12 mg/m ³ | General | Systemic |
| | | Inhalation | | population | 2,21011110 |
| | DNEL | Long term | 48 mg/m³ | Workers | Systemic |
| | | Inhalation | J | | , |
| Xylene | DNEL | Long term | 65.3 mg/m ³ | General | Local |

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| | . О.О. р | | | | |
|---------------------------------------|----------|----------------------|------------------------|------------|-----------|
| | | Inhalation | | population | |
| | DNEL | Short term | 260 mg/m ³ | General | Local |
| | DIVLL | Inhalation | 200 mg/m | | Local |
| | | | , , | population | |
| | DNEL | Short term | 260 mg/m ³ | General | Systemic |
| | | Inhalation | | population | |
| | DNEL | Long term | 221 mg/m ³ | Workers | Local |
| | DIVEL | | 22 i ilig/ili | Workers | Local |
| | | Inhalation | | | |
| | DNEL | Long term Oral | 12.5 mg/ | General | Systemic |
| | | 9 | kg bw/day | population | -, |
| | DAIEI | | | | 0 |
| | DNEL | Long term | 65.3 mg/m ³ | General | Systemic |
| | | Inhalation | | population | |
| | DNEL | Long term Dermal | 125 mg/kg | General | Systemic |
| | DIVLL | Long tomi Domiai | | | Cyclonic |
| | | | bw/day | population | |
| | DNEL | Long term Dermal | 212 mg/kg | Workers | Systemic |
| | | | bw/day | | |
| | DNEL | Long term | 221 mg/m ³ | Workers | Systemic |
| | DIVLL | | 22 i ilig/ili | Workers | Systernic |
| | | Inhalation | | | |
| | DNEL | Short term | 442 mg/m ³ | Workers | Local |
| | | Inhalation | Ü | | |
| | DAIEL | | 4.40/3 | \ | C t i - |
| | DNEL | Short term | 442 mg/m ³ | Workers | Systemic |
| | | Inhalation | | | |
| 2-Methoxy-1-methylethyl acetate | DNEL | Long term | 33 mg/m³ | General | Local |
| | | Inhalation | ,g, | population | |
| | ראירי | | 00 | | 0 1 1 |
| | DNEL | Long term | 33 mg/m³ | General | Systemic |
| | | Inhalation | | population | |
| | DNEL | Long term Oral | 36 mg/kg | General | Systemic |
| | DIVLL | Long term oral | | | Cysternic |
| | | | bw/day | population | _ |
| | DNEL | Long term | 275 mg/m ³ | Workers | Systemic |
| | | Inhalation | _ | | |
| | DNEL | Long term Dermal | 320 mg/kg | General | Systemic |
| | DIVEL | Long term Dermai | | | Systernic |
| | | | bw/day | population | |
| | DNEL | Short term | 550 mg/m ³ | Workers | Local |
| | | Inhalation | J | | |
| | DAIEL | | 700// | \\ | C t i - |
| | DNEL | Long term Dermal | 796 mg/kg | Workers | Systemic |
| | | | bw/day | | |
| Ethylbenzene | DNEL | Long term Oral | 1.6 mg/kg | General | Systemic |
| , | | ==::.g :=:::: = :::: | bw/day | population | -, |
| | | | | | |
| | DNEL | Long term | 15 mg/m³ | General | Systemic |
| | | Inhalation | | population | |
| | DNEL | Long term | 77 mg/m³ | Workers | Systemic |
| | DIVLL | | 77 mg/m | Workers | Oysternic |
| | | Inhalation | | | _ |
| | DNEL | Long term Dermal | 180 mg/kg | Workers | Systemic |
| | | | bw/day | | |
| | DNEL | Short term | | Morkers | Local |
| | DINEL | | 293 mg/m ³ | Workers | LUCAI |
| | | Inhalation | | | |
| | DMEL | Long term | 442 mg/m ³ | Workers | Local |
| | | Inhalation | 3 | | |
| | ראבי | | 004 2 | \\/orke== | Cuatamia |
| | DMEL | Short term | 884 mg/m³ | Workers | Systemic |
| | | Inhalation | | | |
| Quaternary ammonium compounds, | DNEL | Long term Dermal | 4.7 mg/kg | Workers | Local |
| coco alkylethyldimethyl, Et sulfates | | | bw/day | · | |
| 6000 alkyletrylulinetryl, Et Sullates | ראירי | 1 4 | | \\\ | |
| | DNEL | Long term | 3.32 mg/m ³ | vvorkers | Local |
| | | Inhalation | | | |
| Fatty acids, C14-18 and | DNEL | Long term Oral | 1.5 mg/kg | General | Systemic |
| | J. 1LL | | | | - , 5.55 |
| C16-18-unsatd., maleated | D | , , _ | bw/day | population | |
| | DNEL | Long term Dermal | 1.5 mg/kg | General | Systemic |
| | | | bw/day | population | |
| | DNEL | Long term Dermal | 3 mg/kg | Workers | Systemic |
| | DINCL | Long term Demial | | 44 OLVG12 | Cysterric |
| | | | bw/day | | |
| Methyl methacrylate | DNEL | Long term Oral | 8.2 mg/kg | General | Systemic |
| | | | bw/day | population | |
| | ראורי | Short torm | | | Local |
| | DNEL | Short term | 208 mg/m ³ | General | Local |
| | | Inhalation | | population | |
| | DNEL | Short term | 416 mg/m ³ | Workers | Local |
| | | Inhalation | J. | | |
| | ראבי | | 1 5 | Conoral | Local |
| | DNEL | Short term Dermal | 1.5 mg/cm ² | General | Local |
| | | | | | <u>'</u> |

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| <u> </u> | | | | | |
|------------------|-------|--------------------|------------------------|------------|------------|
| | | | | population | |
| | DNEL | Long term Dermal | 1.5 mg/cm ² | General | Local |
| | | | | 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 |
| | | Inhalation | · J | population | , |
| | DNEL | Long term | 104 mg/m ³ | General | Local |
| | | Inhalation | 3. | population | |
| | 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 |
| a | | Inhalation | m³ | | |
| | DNEL | Long term | 0.081 mg/ | Workers | Systemic |
| | | Inhalation | m³ | | |
| | DNEL | Short term | 0.2 mg/m ³ | Workers | Local |
| | | Inhalation | og, | | |
| | DNEL | Short term | 0.2 mg/m ³ | Workers | Systemic |
| | DITLE | Inhalation | 0.2 mg/m | VV GIRGIG | Gyotomio |
| | DNEL | Long term | 0.05 mg/m ³ | General | Systemic |
| | DITLE | Inhalation | 0.00 mg/m | population | Gyotomio |
| | DNEL | Long term Oral | 0.06 mg/ | General | Systemic |
| | DIVLE | Long torm oral | kg bw/day | population | Cyclonno |
| | DNEL | Long term | 0.08 mg/m ³ | General | Local |
| | 5.422 | Inhalation | 0.00 mg/m | population | |
| | DNEL | Short term Oral | 0.1 mg/kg | General | Systemic |
| | DIVEL | Chart tonin Ordi | bw/day | population | - Cyclonno |
| | DNEL | Short term Dermal | 0.1 mg/kg | General | Systemic |
| | DIVLL | Chort tomi Domia | bw/day | population | Cyolonno |
| | DNEL | Long term Dermal | 0.1 mg/kg | General | Systemic |
| | DIVLL | Long tolli Dollia | bw/day | population | |
| | DNEL | Short term Dermal | 0.2 mg/kg | Workers | Systemic |
| | DIVLL | Chort tonii Dennai | bw/day | VVOINCIO | Cystollio |
| | DNEL | Long term Dermal | 0.2 mg/kg | Workers | Systemic |
| | DINCL | Long term Dermai | bw/day | VVOINGIS | Cysternic |
| | | | DWIday | | |

PNECs

| Product/ingredient name | Compartment Detail | Value | Method Detail |
|---|---------------------------|----------------|---------------|
| Quaternary ammonium compounds, coco alkylethyldimethyl, Et sulfates | Fresh water | 0.00068 mg/l | - |
| | Fresh water sediment | 9.27 mg/kg dwt | - |
| | Sewage Treatment Plant | 0.9 mg/l | - |

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.

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Eye/face protection

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

Skin protection Hand protection

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

Recommendations: Wear suitable gloves tested to EN374.

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

1 - 4 hours (breakthrough time): 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.

Other skin protection

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

Respiratory protection

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

Filter type:

Filter type (spray application):

Environmental exposure controls

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

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid. Colour Various **Odour** : Slight **Odour threshold** Not available. Melting point/freezing point

Initial boiling point and

boiling range

Not available.

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

: Not available. **Flammability** Lower and upper explosion Lower: 0.8% limit Upper: 7.6%

Flash point : Closed cup: 27°C (80.6°F)

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SECTION 9: Physical and chemical properties

Auto-ignition temperature

| Ingredient name | °C | °F | Method |
|---------------------------------|-----|-------|-----------|
| 2-Methoxy-1-methylethyl acetate | 333 | 631.4 | DIN 51794 |
| n-Butyl acetate | 415 | 779 | EU A.15 |

Decomposition temperature : Not available.pH : Not applicable.Viscosity : Not available.

Solubility(ies) :

Not available.

water

Solubility in water : Not available.

Partition coefficient: n-octanol/ : Not applicable.

Vapour pressure

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

Relative density: Not available.Density: 1.4 g/cm³Vapour density: Not available.Explosive properties: Not available.Oxidising properties: Not available.

Particle characteristics

Median particle size : Not applicable.

SECTION 10: Stability and reactivity

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

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld,

braze, solder, drill, grind or expose containers to heat or sources of ignition.

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

oxidising materials

10.6 Hazardous decomposition products

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

SECTION 11: Toxicological information

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

<u>Acute toxicity</u>

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SECTION 11: Toxicological information

| Product/ingredient name | Result | Species | Dose | Exposure |
|---------------------------------|---------------------------------|---------|-------------------------|----------|
| n-Butyl acetate | LC50 Inhalation Vapour | Rat | 0.74 mg/l | 4 hours |
| · | LD50 Dermal | Rabbit | 14112 mg/kg | - |
| | LD50 Oral | Rat | 10760 mg/kg | - |
| Xylene | LC50 Inhalation Vapour | Rat | 21.7 mg/l | 4 hours |
| | LD50 Oral | Rat | 4300 mg/kg | - |
| 2-Methoxy-1-methylethyl acetate | LD50 Dermal | Rabbit | >5 g/kg | - |
| | LD50 Oral | Rat | 8532 mg/kg | - |
| Ethylbenzene | LC50 Inhalation Dusts and mists | Rat | 29000 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | 15400 mg/kg | - |
| | LD50 Oral | Rat | 3500 mg/kg | - |
| 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 |
|-----------------------------|------------------------------|
| Dermal Inhalation (vapours) | 12654.37 mg/kg 134.8 mg/l |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|-------------------------|--------------------------|------------|-------|----------------------------|-------------|
| n-Butyl acetate | Eyes - Moderate irritant | Rabbit | - | 100 mg | - |
| · | Skin - Moderate irritant | Rabbit | - | 24 hours 500 | - |
| titanium dioxide | Skin - Mild irritant | Human | - | mg 72 hours 300 ug I | - |
| Xylene | Eyes - Mild irritant | Rabbit | _ | 87 mg | - |
| , | Eyes - Severe irritant | Rabbit | - | 24 hours 5 | - |
| | 01: 14:11: 11 | 5 (| | mg | |
| | Skin - Mild irritant | Rat | - | 8 hours 60 uL | - |
| | Skin - Moderate irritant | Rabbit | - | 100 % | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 500 | - |
| Ethydh an san a | Fire Covers imitent | Dabbit | | 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

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

Sensitisation

Conclusion/Summary : May cause an allergic skin reaction.

Mutagenicity

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

Carcinogenicity

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

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

Specific target organ toxicity (single exposure)

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SECTION 11: Toxicological information

| Product/ingredient name | Category | Route of exposure | Target organs |
|---------------------------|--------------------------|-------------------|---|
| n-Butyl acetate Xylene | Category 3 Category 3 | - | Narcotic effects Respiratory tract irritation |
| 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 | - |
| Ethylbenzene | Category 2 | oral, inhalation | hearing organs |
| Maleic anhydride | Category 1 | inhalation | respiratory system |

Aspiration hazard

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

Information on likely routes: Not available.

of exposure

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

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

dizziness.

Skin contact : May cause an allergic skin reaction.

Ingestion : Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Skin contact : Adverse symptoms may include the following:

> irritation redness

Ingestion : No specific data.

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

Short term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary : Not available.

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SECTION 11: Toxicological information

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed

to very low levels.

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

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

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 |
| titanium dioxide | Acute LC50 3 mg/l Fresh water | Crustaceans - Ceriodaphnia dubia - Neonate | 48 hours |
| | Acute LC50 6.5 mg/l Fresh water | Daphnia - <i>Daphnia pulex</i> - Neonate | 48 hours |
| | Acute LC50 >1000000 μg/l Marine water | Fish - Fundulus heteroclitus | 96 hours |
| Methyl methacrylate | Acute LC50 130000 μg/l Fresh water | Fish - <i>Pimephales promelas</i> - Adult | 96 hours |
| 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 |
|-------------------------|--------|-------------|-----------|
| n-Butyl acetate | 2.3 | - | Low |
| Xylene | 3.12 | 8.1 to 25.9 | Low |
| 2-Methoxy-1-methylethyl | 1.2 | - | Low |
| acetate | | | |
| 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.

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

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SECTION 12: Ecological information

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.

Hazardous waste

European waste catalogue (EWC) The classification of the product may meet the criteria for a hazardous waste.

: 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 | UN1993 | UN1993 | UN1993 | UN1993 |
| 14.2 UN proper shipping name | FLAMMABLE LIQUID, N.O.S. (n-butyl acetate, xylene) | FLAMMABLE LIQUID, N.O.S. (n-butyl acetate, xylene) | FLAMMABLE LIQUID, N.O.S. (xylene, 2-methoxy- 1-methylethyl acetate) | FLAMMABLE LIQUID, N.O.S. (xylene, 2-methoxy- 1-methylethyl acetate) |
| 14.3 Transport hazard class(es) | 3 | 3 | 3 | 3 |
| 14.4 Packing group | III | III | III | III |
| 14.5 Environmental hazards | No. | Yes. | No. | No. |

Additional information

ADR/RID

: Tunnel code (D/E)

ADN

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

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

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

instruments

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

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

| Product/ingredient name | % | Designation [Usage] |
|-------------------------|-----|---------------------|
| RAPIFILL 1080-00 | ≥90 | 3 |

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

Austria

Czech Republic

Denmark Finland

France

Social Security Code, RG 84 : n-Butyl acetate

RG 4bis, RG 84 Articles L 461-1 to L 461-7 **Xylene**

> 2-Methoxy-1-methylethyl acetate **RG 84** Ethylbenzene **RG 84** Methyl methacrylate **RG 82** Maleic anhydride RG 66

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SECTION 15: Regulatory information

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: 45.2% TA-Luft Class I - Number 5.2.5: 1.5%

<u>Italy</u>

D.Lgs. 152/06 : Not determined.

Netherlands

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

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

Water Discharge Policy

(ABM)

: A(2) Toxic for aquatic organisms, may have long-term hazardous effects in aquatic

environment. Decontamination effort: A

Norway Sweden

Flammable liquid class

(SRVFS 2005:10)

Switzerland

VOC content : VOC (w/w): 34.7%

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

: 2a

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

15.2 Chemical safety assessment

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

required.

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SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

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

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

EUH statement = CLP-specific Hazard statement

N/A = Not available

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

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

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

| Classification | Justification |
|-------------------------|-----------------------|
| Flam. Liq. 3, H226 | On basis of test data |
| Skin Sens. 1, H317 | Calculation method |
| STOT SE 3, H336 | 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. H311 Toxic in contact with skin. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H3371 Suspected of causing cancer. H372 Causes damage to organs through prolonged or repeated exposure. H373 May cause damage to organs through prolonged or repeated exposure. H374 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H410 Repeated exposure may cause skin dryness or cracking. EUH061 Repeated exposure may cause skin dryness or cracking. | | |
|---|--------|--|
| H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H311 Toxic in contact with skin. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. 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. H351 Suspected of causing cancer. 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. EUH066 Repeated exposure may cause skin dryness or cracking. | H225 | Highly flammable liquid and vapour. |
| H304 May be fatal if swallowed and enters airways. H311 Toxic in contact with skin. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer. 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. EUH066 Repeated exposure may cause skin dryness or cracking. | H226 | Flammable liquid and vapour. |
| H311 Toxic in contact with skin. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer. 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. EUH066 Repeated exposure may cause skin dryness or cracking. | H302 | Harmful if swallowed. |
| 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. H351 Suspected of causing cancer. 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. EUH066 Repeated exposure may cause skin dryness or cracking. | H304 | May be fatal if swallowed and enters airways. |
| 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. H351 Suspected of causing cancer. 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. H412 Harmful to aquatic life with long lasting effects. EUH066 Repeated exposure may cause skin dryness or cracking. | H311 | Toxic in contact with skin. |
| H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer. 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. H412 Harmful to aquatic life with long lasting effects. EUH066 Repeated exposure may cause skin dryness or cracking. | H312 | Harmful in contact with skin. |
| 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. H351 Suspected of causing cancer. 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. H412 Harmful to aquatic life with long lasting effects. EUH066 Repeated exposure may cause skin dryness or cracking. | H314 | Causes severe skin burns and eye damage. |
| 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. H351 Suspected of causing cancer. 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. H412 Harmful to aquatic life with long lasting effects. EUH066 Repeated exposure may cause skin dryness or cracking. | H315 | Causes skin irritation. |
| 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. H351 Suspected of causing cancer. 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. H412 Harmful to aquatic life with long lasting effects. EUH066 Repeated exposure may cause skin dryness or cracking. | H317 | May cause an allergic skin reaction. |
| 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. H351 Suspected of causing cancer. H372 Causes damage to organs through prolonged or repeated exposure. H373 May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. EUH066 Repeated exposure may cause skin dryness or cracking. | H318 | Causes serious eye damage. |
| H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer. 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. H412 Harmful to aquatic life with long lasting effects. EUH066 Repeated exposure may cause skin dryness or cracking. | H319 | Causes serious eye irritation. |
| H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer. 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. H412 Harmful to aquatic life with long lasting effects. EUH066 Repeated exposure may cause skin dryness or cracking. | H332 | Harmful if inhaled. |
| H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer. 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. H412 Harmful to aquatic life with long lasting effects. EUH066 Repeated exposure may cause skin dryness or cracking. | H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H351 Suspected of causing cancer. 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. H412 Harmful to aquatic life with long lasting effects. EUH066 Repeated exposure may cause skin dryness or cracking. | H335 | May cause respiratory irritation. |
| 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. H412 Harmful to aquatic life with long lasting effects. EUH066 Repeated exposure may cause skin dryness or cracking. | H336 | May cause drowsiness or dizziness. |
| 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. H412 Harmful to aquatic life with long lasting effects. EUH066 Repeated exposure may cause skin dryness or cracking. | H351 | Suspected of causing cancer. |
| H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. EUH066 Repeated exposure may cause skin dryness or cracking. | H372 | Causes damage to organs through prolonged or repeated exposure. |
| H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. EUH066 Repeated exposure may cause skin dryness or cracking. | H373 | May cause damage to organs through prolonged or repeated exposure. |
| H412 Harmful to aquatic life with long lasting effects. EUH066 Repeated exposure may cause skin dryness or cracking. | H400 | Very toxic to aquatic life. |
| EUH066 Repeated exposure may cause skin dryness or cracking. | H410 | Very toxic to aquatic life with long lasting effects. |
| | H412 | Harmful to aquatic life with long lasting effects. |
| EUH071 Corrosive to the respiratory tract. | EUH066 | Repeated exposure may cause skin dryness or cracking. |
| · · · · · · · · · · · · · · · · · · · | EUH071 | Corrosive to the respiratory tract. |

Full text of classifications [CLP/GHS]

| Acute Tox. 3 Acute Tox. 4 | ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 |
|------------------------------|---|
| Aguatic Acute 1 | SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 |
| Aquatic Chronic 1 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 |
| Aquatic Chronic 3 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 |
| Asp. Tox. 1 | ASPIRATION HAZARD - Category 1 |
| Carc. 2 | CARCINOGENICITY - Category 2 |
| Eye Dam. 1 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 |
| Eye Irrit. 2 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 |
| Flam. Liq. 2 | FLAMMABLE LIQUIDS - Category 2 |
| Flam. Liq. 3 | FLAMMABLE LIQUIDS - Category 3 |
| Resp. Sens. 1 | RESPIRATORY SENSITISATION - Category 1 |
| Skin Corr. 1B | SKIN CORROSION/IRRITATION - Category 1B |
| Skin Corr. 1C | SKIN CORROSION/IRRITATION - Category 1C |
| Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2 |
| Skin Sens. 1 | SKIN SENSITISATION - Category 1 |
| Skin Sens. 1A | SKIN SENSITISATION - Category 1A |

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SECTION 16: Other information

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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revision

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RAPIFILL 1080-00 All variants

Notice to reader

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

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