

SAFETY DATA SHEET



ALPOCRYL KLARLACK 5453-30 - All variants

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

1.1 Product identifier

Product name : ALPOCRYL KLARLACK 5453-30 - 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 responsible for this SDS : Prod-safe@teknos.com

National contact

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

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : In an emergency, call 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

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

Flam. Liq. 2, H225

Skin Irrit. 2, H315

Eye Irrit. 2, H319

Skin Sens. 1, H317

Repr. 2, H361d

STOT SE 3, H336

STOT RE 2, H373

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

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

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

2.2 Label elements

Hazard pictograms :



Signal word : Danger

Hazard statements :

- H225 - Highly flammable liquid and vapour.
- H315 - Causes skin irritation.
- H317 - May cause an allergic skin reaction.
- H319 - Causes serious eye irritation.
- H336 - May cause drowsiness or dizziness.
- H361d - Suspected of damaging the unborn child.
- H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

SECTION 2: Hazards identification

Prevention	: P280 - Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 - Do not breathe vapour.
Response	: P314 - Get medical advice/attention if you feel unwell.
Storage	: P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	: Contains: n-Butyl acetate; Xylene; Toluene and EO bis(benzotriazolyl)phenylpropionat
Supplemental label elements	:
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	: None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
n-Butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥25 - ≤50	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1] [2]
Ethyl acetate	REACH #: 01-2119475103-46 EC: 205-500-4 CAS: 141-78-6 Index: 607-022-00-5	≥10 - ≤25	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	-	[1] [2]
Xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥10 - <20	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 (oral, inhalation) Asp. Tox. 1, H304	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/ l	[1] [2]
Toluene	REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	<10	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304	-	[1] [2]

Date of issue/Date of revision : 02/04/2024 Date of previous issue : No previous validation Version : 1 2/44

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Ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤5	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) (oral, inhalation) Asp. Tox. 1, H304	ATE [Inhalation (vapours)] = 11 mg/	[1] [2]
EO bis(benztriazolyl) phenylpropionat	REACH #: 01-0000015075-76 EC: 400-830-7 CAS: 104810-48-2 Index: 607-176-00-3	<1	Skin Sens. 1A, H317 Aquatic Chronic 2, H411	-	[1]
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 See Section 16 for the full text of the H statements declared above.	-	[1] [2]

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

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

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.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

SECTION 4: First aid measures

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:
pain or irritation
watering
redness

Inhalation : Adverse symptoms may include the following:
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
reduced foetal weight
increase in foetal deaths
skeletal malformations

Skin contact : Adverse symptoms may include the following:
irritation
redness
reduced foetal weight
increase in foetal deaths
skeletal malformations

Ingestion : Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations

4.3 Indication of any immediate medical attention and special treatment needed

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 : Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

Hazardous combustion products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
metal oxide/oxides

5.3 Advice for firefighters

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

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).

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 non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

6.4 Reference to other sections

- : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. 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.

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

Category	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonne	50000 tonne

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific solutions : Not available.

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
n-Butyl acetate	Regulation on Limit Values - MAC (Austria, 4/2021). [Butyl acetate (all isomers except tert-butyl acetate)] CEIL: 480 mg/m ³ 15 minutes. CEIL: 100 ppm 15 minutes. TWA: 241 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
Ethyl acetate	Regulation on Limit Values - MAC (Austria, 4/2021). TWA: 200 ppm 8 hours. TWA: 734 mg/m ³ 8 hours. PEAK: 1468 mg/m ³ , 4 times per shift, 15 minutes. PEAK: 400 ppm, 4 times per shift, 15 minutes.
Xylene	Regulation on Limit Values - MAC (Austria, 4/2021). [Xylenes (all isomers)] PEAK: 442 mg/m ³ , 4 times per shift, 15 minutes. TWA: 50 ppm 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes. TWA: 221 mg/m ³ 8 hours.
Toluene	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 190 mg/m ³ 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes. PEAK: 380 mg/m ³ , 4 times per shift, 15 minutes.
Ethylbenzene	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed through skin. TWA: 100 ppm 8 hours. TWA: 440 mg/m ³ 8 hours. CEIL: 200 ppm, 8 times per shift, 5 minutes.

SECTION 8: Exposure controls/personal protection

Methyl methacrylate	<p>CEIL: 880 mg/m³, 8 times per shift, 5 minutes.</p> <p>Regulation on Limit Values - MAC (Austria, 4/2021). Skin sensitiser.</p> <p>TWA: 50 ppm 8 hours. TWA: 210 mg/m³ 8 hours. CEIL: 100 ppm, 8 times per shift, 5 minutes. CEIL: 420 mg/m³, 8 times per shift, 5 minutes.</p>
n-Butyl acetate	<p>Limit values (Belgium, 5/2021). [butyl acetate, all isomers]</p> <p>STEL: 712 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 238 mg/m³ 8 hours. TWA: 50 ppm 8 hours.</p>
Ethyl acetate	<p>Limit values (Belgium, 5/2021).</p> <p>TWA: 200 ppm 8 hours. TWA: 734 mg/m³ 8 hours. STEL: 1468 mg/m³ 15 minutes. STEL: 400 ppm 15 minutes.</p>
Xylene	<p>Limit values (Belgium, 5/2021). [Xylene] Absorbed through skin.</p> <p>TWA: 50 ppm 8 hours. TWA: 221 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m³ 15 minutes.</p>
Toluene	<p>Limit values (Belgium, 5/2021). Absorbed through skin.</p> <p>TWA: 20 ppm 8 hours. TWA: 77 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 384 mg/m³ 15 minutes.</p>
Ethylbenzene	<p>Limit values (Belgium, 5/2021). Absorbed through skin.</p> <p>TWA: 20 ppm 8 hours. TWA: 87 mg/m³ 8 hours. STEL: 125 ppm 15 minutes. STEL: 551 mg/m³ 15 minutes.</p>
Methyl methacrylate	<p>Limit values (Belgium, 5/2021).</p> <p>TWA: 50 ppm 8 hours. TWA: 208 mg/m³ 8 hours. STEL: 416 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes.</p>
n-Butyl acetate	<p>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021).</p> <p>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.</p>
Ethyl acetate	<p>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021).</p> <p>Limit value 8 hours: 734 mg/m³ 8 hours. Limit value 15 min: 400 ppm 15 minutes. Limit value 15 min: 1468 mg/m³ 15 minutes. Limit value 8 hours: 200 ppm 8 hours.</p>
Xylene	<p>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). [Xylene (mixture of isomers), pure] Absorbed through skin.</p> <p>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.</p>
Toluene	<p>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed through skin.</p> <p>Limit value 15 min: 384 mg/m³ 15 minutes. Limit value 8 hours: 192 mg/m³ 8 hours. Limit value 15 min: 100 ppm 15 minutes. Limit value 8 hours: 50 ppm 8 hours.</p>

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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/m ³ 8 hours. Limit value 15 min: 545 mg/m ³ 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.
n-Butyl acetate	Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). STELV: 723 mg/m ³ 15 minutes. STELV: 150 ppm 15 minutes. ELV: 241 mg/m ³ 8 hours. ELV: 50 ppm 8 hours.
Ethyl acetate	Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). STELV: 400 ppm 15 minutes. ELV: 200 ppm 8 hours. STELV: 1468 mg/m ³ 15 minutes. ELV: 734 mg/m ³ 8 hours.
Xylene	Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). [xylene (all isomers)] Absorbed through skin. STELV: 442 mg/m ³ 15 minutes. STELV: 100 ppm 15 minutes. ELV: 221 mg/m ³ 8 hours. ELV: 50 ppm 8 hours.
Toluene	Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). Absorbed through skin. STELV: 384 mg/m ³ 15 minutes. STELV: 100 ppm 15 minutes. ELV: 192 mg/m ³ 8 hours. ELV: 50 ppm 8 hours.
Ethylbenzene	Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). Absorbed through skin. STELV: 884 mg/m ³ 15 minutes. STELV: 200 ppm 15 minutes. ELV: 442 mg/m ³ 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. STELV: 100 ppm 15 minutes. ELV: 50 ppm 8 hours.
n-Butyl acetate	Department of labour inspection (Cyprus, 7/2021). STEL: 150 ppm 15 minutes. STEL: 723 mg/m ³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 241 mg/m ³ 8 hours.
Ethyl acetate	Department of labour inspection (Cyprus, 7/2021). STEL: 400 ppm 15 minutes. STEL: 1468 mg/m ³ 15 minutes. TWA: 200 ppm 8 hours. TWA: 734 mg/m ³ 8 hours.
Xylene	Department of labour inspection (Cyprus, 7/2021). [Xylene, mixed isomers] Absorbed through skin. STEL: 100 ppm 15 minutes. STEL: 442 mg/m ³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 221 mg/m ³ 8 hours.
Toluene	Department of labour inspection (Cyprus, 7/2021). Absorbed through skin. STEL: 100 ppm 15 minutes.

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Ethylbenzene	<p>STEL: 384 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 192 mg/m³ 8 hours.</p> <p>Department of labour inspection (Cyprus, 7/2021). Absorbed through skin.</p> <p>STEL: 884 mg/m³ 15 minutes. TWA: 100 ppm 8 hours. TWA: 442 mg/m³ 8 hours. STEL: 200 ppm 15 minutes.</p>
Methyl methacrylate	<p>Department of labour inspection (Cyprus, 7/2021).</p> <p>STEL: 100 ppm 15 minutes. TWA: 50 ppm 8 hours.</p>
n-Butyl acetate	<p>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022).</p> <p>TWA: 241 mg/m³ 8 hours. STEL: 723 mg/m³ 15 minutes. STEL: 149.661 ppm 15 minutes. TWA: 49.887 ppm 8 hours.</p>
Ethyl acetate	<p>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022).</p> <p>TWA: 700 mg/m³ 8 hours. TWA: 191.1 ppm 8 hours. STEL: 900 mg/m³ 15 minutes. STEL: 245.7 ppm 15 minutes.</p>
Xylene	<p>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). [xylene, technical mixture of isomers and all isomers] Absorbed through skin.</p> <p>TWA: 200 mg/m³ 8 hours. TWA: 45.4 ppm 8 hours. STEL: 400 mg/m³ 15 minutes. STEL: 90.8 ppm 15 minutes.</p>
Toluene	<p>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). Absorbed through skin.</p> <p>TWA: 192 mg/m³ 8 hours. TWA: 50.112 ppm 8 hours. STEL: 384 mg/m³ 15 minutes. STEL: 100.224 ppm 15 minutes.</p>
Ethylbenzene	<p>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). Absorbed through skin.</p> <p>TWA: 200 mg/m³ 8 hours. TWA: 45.4 ppm 8 hours. STEL: 500 mg/m³ 15 minutes. STEL: 113.5 ppm 15 minutes.</p>
Methyl methacrylate	<p>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). Skin sensitiser.</p> <p>TWA: 50 mg/m³ 8 hours. TWA: 12 ppm 8 hours. STEL: 150 mg/m³ 15 minutes. STEL: 36 ppm 15 minutes.</p>
n-Butyl acetate	<p>Working Environment Authority (Denmark, 6/2022). [Butyl acetate, all isomers]</p> <p>TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 8 hours. STEL: 723 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes.</p>
Ethyl acetate	<p>Working Environment Authority (Denmark, 6/2022).</p> <p>TWA: 150 ppm 8 hours. TWA: 540 mg/m³ 8 hours. STEL: 1468 mg/m³ 15 minutes. STEL: 400 ppm 15 minutes.</p>
Xylene	<p>Working Environment Authority (Denmark, 6/2022). [Xylenes, all isomers] Absorbed through skin.</p> <p>TWA: 25 ppm 8 hours. TWA: 109 mg/m³ 8 hours.</p>

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Toluene	<p>STEL: 442 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes.</p> <p>Working Environment Authority (Denmark, 6/2022). Absorbed through skin.</p> <p>TWA: 25 ppm 8 hours. TWA: 94 mg/m³ 8 hours. STEL: 384 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes.</p>
Ethylbenzene	<p>Working Environment Authority (Denmark, 6/2022). Absorbed through skin. Carcinogen.</p> <p>TWA: 50 ppm 8 hours. TWA: 217 mg/m³ 8 hours. STEL: 434 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes.</p>
Methyl methacrylate	<p>Working Environment Authority (Denmark, 6/2022). Absorbed through skin.</p> <p>TWA: 25 ppm 8 hours. TWA: 102 mg/m³ 8 hours. STEL: 100 ppm 15 minutes.</p>
n-Butyl acetate	<p>Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022).</p> <p>STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 8 hours.</p>
Ethyl acetate	<p>Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022).</p> <p>TWA: 500 mg/m³ 8 hours. TWA: 150 ppm 8 hours. STEL: 1100 mg/m³ 15 minutes. STEL: 300 ppm 15 minutes.</p>
Xylene	<p>Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). [Xylenes] Absorbed through skin.</p> <p>TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. STEL: 450 mg/m³ 15 minutes. TWA: 200 mg/m³ 8 hours.</p>
Toluene	<p>Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). Absorbed through skin.</p> <p>TWA: 192 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 384 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes.</p>
Ethylbenzene	<p>Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). Absorbed through skin. Skin sensitiser.</p> <p>TWA: 442 mg/m³ 8 hours. TWA: 100 ppm 8 hours. STEL: 884 mg/m³ 15 minutes. STEL: 200 ppm 15 minutes.</p>
Methyl methacrylate	<p>Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). Skin sensitiser.</p> <p>TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes.</p>
n-Butyl acetate	<p>EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values</p> <p>STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. TWA: 241 mg/m³ 8 hours. TWA: 50 ppm 8 hours.</p>
Ethyl acetate	<p>EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values</p> <p>STEL: 400 ppm 15 minutes. STEL: 1468 mg/m³ 15 minutes. TWA: 200 ppm 8 hours.</p>

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Xylene	<p>TWA: 734 mg/m³ 8 hours. EU OEL (Europe, 1/2022). [xylene, mixed isomers pure] Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 50 ppm 8 hours. TWA: 221 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m³ 15 minutes.</p>
Toluene	<p>EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 192 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 384 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes.</p>
Ethylbenzene	<p>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.</p>
Methyl methacrylate	<p>EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes.</p>
n-Butyl acetate	<p>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.</p>
Ethyl acetate	<p>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). TWA: 200 ppm 8 hours. TWA: 730 mg/m³ 8 hours. STEL: 400 ppm 15 minutes. STEL: 1470 mg/m³ 15 minutes.</p>
Xylene	<p>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). [Xylenes] Absorbed through skin. STEL: 440 mg/m³ 15 minutes. TWA: 220 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes.</p>
Toluene	<p>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). Absorbed through skin. Ototoxicant. TWA: 25 ppm 8 hours. TWA: 81 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 380 mg/m³ 15 minutes.</p>
Ethylbenzene	<p>Institute of Occupational Health, Ministry of Social Affairs (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.</p>
Methyl methacrylate	<p>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.</p>

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n-Butyl acetate	<p>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.</p>
Ethyl acetate	<p>Ministry of Labor (France, 10/2022). Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA: 200 ppm 8 hours. TWA: 734 mg/m³ 8 hours. STEL: 1468 mg/m³ 15 minutes. STEL: 400 ppm 15 minutes.</p>
Xylene	<p>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.</p>
Toluene	<p>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: 76.8 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 384 mg/m³ 15 minutes.</p>
Ethylbenzene	<p>Ministry of Labor (France, 10/2022). Absorbed through skin. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA: 20 ppm 8 hours. TWA: 88.4 mg/m³ 8 hours. STEL: 442 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes.</p>
Methyl methacrylate	<p>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.</p>
n-Butyl acetate	<p>DFG MAC-values list (Germany, 7/2022). TWA: 100 ppm 8 hours. PEAK: 200 ppm, 4 times per shift, 15 minutes. TWA: 480 mg/m³ 8 hours. PEAK: 960 mg/m³, 4 times per shift, 15 minutes. TRGS 900 OEL (Germany, 6/2022). TWA: 300 mg/m³ 8 hours. TWA: 62 ppm 8 hours. PEAK: 600 mg/m³ 15 minutes. PEAK: 124 ppm 15 minutes.</p>
Ethyl acetate	<p>TRGS 900 OEL (Germany, 6/2022). TWA: 730 mg/m³ 8 hours. PEAK: 1460 mg/m³ 15 minutes. TWA: 200 ppm 8 hours. PEAK: 400 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). TWA: 200 ppm 8 hours. PEAK: 400 ppm, 4 times per shift, 15 minutes. TWA: 750 mg/m³ 8 hours. PEAK: 1500 mg/m³, 4 times per shift, 15 minutes.</p>
Xylene	<p>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.</p>

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Toluene	<p>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. TRGS 900 OEL (Germany, 6/2022). Absorbed through skin. TWA: 190 mg/m³ 8 hours. PEAK: 380 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. PEAK: 100 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). Absorbed through skin. TWA: 50 ppm 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes. TWA: 190 mg/m³ 8 hours. PEAK: 380 mg/m³, 4 times per shift, 15 minutes.</p>
Ethylbenzene	<p>TRGS 900 OEL (Germany, 6/2022). Absorbed through skin. TWA: 88 mg/m³ 8 hours. PEAK: 176 mg/m³ 15 minutes. TWA: 20 ppm 8 hours. PEAK: 40 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). Absorbed through skin. PEAK: 40 ppm, 4 times per shift, 15 minutes. PEAK: 176 mg/m³, 4 times per shift, 15 minutes. TWA: 88 mg/m³ 8 hours. TWA: 20 ppm 8 hours.</p>
Methyl methacrylate	<p>TRGS 900 OEL (Germany, 6/2022). TWA: 210 mg/m³ 8 hours. PEAK: 420 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. PEAK: 100 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). Skin sensitiser. TWA: 50 ml/m³ 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes. TWA: 210 mg/m³ 8 hours. PEAK: 420 mg/m³, 4 times per shift, 15 minutes. PEAK: 100 ml/m³, 4 times per shift, 15 minutes.</p>
n-Butyl acetate	<p>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes.</p>
Ethyl acetate	<p>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). TWA: 200 ppm 8 hours. TWA: 734 mg/m³ 8 hours. STEL: 1468 mg/m³ 15 minutes. STEL: 400 ppm 15 minutes.</p>
Xylene	<p>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). [Xylenes (all isomers)] Absorbed through skin. TWA: 100 ppm 8 hours. TWA: 435 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 650 mg/m³ 15 minutes.</p>
Toluene	<p>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 192 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 384 mg/m³ 15 minutes.</p>

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Ethylbenzene	Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). TWA: 100 ppm 8 hours. TWA: 435 mg/m ³ 8 hours. STEL: 125 ppm 15 minutes. STEL: 545 mg/m ³ 15 minutes.
Methyl methacrylate	Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). STEL: 100 ppm 15 minutes. TWA: 50 ppm 8 hours.
n-Butyl acetate	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Skin sensitiser. Inhalation sensitiser. TWA: 241 mg/m ³ 8 hours. PEAK: 723 mg/m ³ 15 minutes. PEAK: 150 ppm 15 minutes. TWA: 50 ppm 8 hours.
Ethyl acetate	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Skin sensitiser. Inhalation sensitiser. TWA: 734 mg/m ³ 8 hours. PEAK: 1468 mg/m ³ 15 minutes. PEAK: 400 ppm 15 minutes. TWA: 200 ppm 8 hours.
Xylene	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). [xylene, mixture of isomers] Absorbed through skin. TWA: 221 mg/m ³ 8 hours. PEAK: 442 mg/m ³ 15 minutes. PEAK: 100 ppm 15 minutes. TWA: 50 ppm 8 hours.
Toluene	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed through skin. Skin sensitiser. Inhalation sensitiser. TWA: 192 mg/m ³ 8 hours. PEAK: 384 mg/m ³ 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/m ³ 8 hours. PEAK: 884 mg/m ³ 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/m ³ 8 hours. PEAK: 415 mg/m ³ 15 minutes. PEAK: 100 ppm 15 minutes. TWA: 50 ppm 8 hours.
n-Butyl acetate	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). [butyl acetate, all isomers] TWA: 241 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. STEL: 723 mg/m ³ 15 minutes. STEL: 150 ppm 15 minutes.
Ethyl acetate	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). TWA: 540 mg/m ³ 8 hours. TWA: 150 ppm 8 hours.
Xylene	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). [xylene, all isomers] Absorbed through skin. STEL: 442 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 109 mg/m ³ 8 hours. TWA: 25 ppm 8 hours.
Toluene	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). Absorbed through skin. STEL: 188 mg/m ³ 15 minutes.

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Ethylbenzene	<p>STEL: 50 ppm 15 minutes. TWA: 94 mg/m³ 8 hours. TWA: 25 ppm 8 hours.</p> <p>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.</p>
Methyl methacrylate	<p>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.</p>
n-Butyl acetate	<p>NAOSH (Ireland, 5/2021). Notes: EU derived Occupational Exposure Limit Values OELV-8hr: 50 ppm 8 hours. OELV-8hr: 241 mg/m³ 8 hours. OELV-15min: 150 ppm 15 minutes. OELV-15min: 723 mg/m³ 15 minutes.</p>
Ethyl acetate	<p>NAOSH (Ireland, 5/2021). Notes: EU derived Occupational Exposure Limit Values OELV-8hr: 200 ppm 8 hours. OELV-15min: 400 ppm 15 minutes. OELV-15min: 1468 mg/m³ 15 minutes. OELV-8hr: 734 mg/m³ 8 hours.</p>
Xylene	<p>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.</p>
Toluene	<p>NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV-8hr: 50 ppm 8 hours. OELV-8hr: 192 mg/m³ 8 hours. OELV-15min: 100 ppm 15 minutes. OELV-15min: 384 mg/m³ 15 minutes.</p>
Ethylbenzene	<p>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.</p>
Methyl methacrylate	<p>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.</p>
n-Butyl acetate	<p>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.</p>
Ethyl acetate	<p>Legislative Decree No. 819/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020). Short Term: 400 ppm 15 minutes. Short Term: 1468 mg/m³ 15 minutes. 8 hours: 200 ppm 8 hours. 8 hours: 734 mg/m³ 8 hours.</p>
Xylene	<p>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.</p>

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Toluene	<p>8 hours: 221 mg/m³ 8 hours. Short Term: 100 ppm 15 minutes. Short Term: 442 mg/m³ 15 minutes.</p> <p>Legislative Decree No. 819/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020). Absorbed through skin. 8 hours: 50 ppm 8 hours. 8 hours: 192 mg/m³ 8 hours.</p>
Ethylbenzene	<p>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.</p>
Methyl methacrylate	<p>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.</p>
n-Butyl acetate	<p>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). TWA: 241 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. TWA: 50 ppm 8 hours.</p>
Ethyl acetate	<p>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). TWA: 200 mg/m³ 8 hours. STEL: 400 ppm 15 minutes. STEL: 1468 mg/m³ 15 minutes. TWA: 54 ppm 8 hours.</p>
Xylene	<p>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). [Xylenes] Absorbed through skin. TWA: 221 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m³ 15 minutes.</p>
Toluene	<p>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). Absorbed through skin. TWA: 50 mg/m³ 8 hours. STEL: 150 mg/m³ 15 minutes. TWA: 14 ppm 8 hours. STEL: 40 ppm 15 minutes.</p>
Ethylbenzene	<p>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). Absorbed through skin. TWA: 442 mg/m³ 8 hours. TWA: 100 ppm 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m³ 15 minutes.</p>
Methyl methacrylate	<p>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). TWA: 10 mg/m³ 8 hours.</p>
n-Butyl acetate	<p>Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). TWA: 241 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 723 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes.</p>
Ethyl acetate	<p>Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). TWA: 500 mg/m³ 8 hours. TWA: 150 ppm 8 hours. CEIL: 1100 mg/m³ CEIL: 300 ppm</p>
Xylene	<p>Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). [xylene, mixed isomers, pure] Absorbed through skin. STEL: 442 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes.</p>

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Toluene	<p>TWA: 221 mg/m³ 8 hours. Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Absorbed through skin. TWA: 192 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 384 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes.</p>
Ethylbenzene	<p>Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Absorbed through skin. TWA: 442 mg/m³ 8 hours. TWA: 100 ppm 8 hours. STEL: 884 mg/m³ 15 minutes. STEL: 200 ppm 15 minutes.</p>
Methyl methacrylate	<p>Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Skin sensitiser. Inhalation sensitiser. TWA: 208 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 416 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes.</p>
n-Butyl acetate	<p>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.</p>
Ethyl acetate	<p>Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). STEL: 400 ppm 15 minutes. STEL: 1468 mg/m³ 15 minutes. TWA: 200 ppm 8 hours. TWA: 734 mg/m³ 8 hours.</p>
Xylene	<p>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.</p>
Toluene	<p>Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). Absorbed through skin. STEL: 100 ppm 15 minutes. STEL: 384 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 192 mg/m³ 8 hours.</p>
Ethylbenzene	<p>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.</p>
Methyl methacrylate	<p>Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). STEL: 100 ppm 15 minutes. TWA: 50 ppm 8 hours.</p>
n-Butyl acetate	<p>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.</p>
Ethyl acetate	<p>EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values STEL: 400 ppm 15 minutes. STEL: 1468 mg/m³ 15 minutes.</p>

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Xylene	<p>TWA: 200 ppm 8 hours. TWA: 734 mg/m³ 8 hours.</p> <p>EU OEL (Europe, 1/2022). [xylene, mixed isomers pure] Absorbed through skin. Notes: list of indicative occupational exposure limit values</p> <p>TWA: 50 ppm 8 hours. TWA: 221 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m³ 15 minutes.</p>
Toluene	<p>EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values</p> <p>TWA: 192 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 384 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes.</p>
Ethylbenzene	<p>EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values</p> <p>TWA: 100 ppm 8 hours. TWA: 442 mg/m³ 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m³ 15 minutes.</p>
Methyl methacrylate	<p>EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values</p> <p>TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes.</p>
n-Butyl acetate	<p>Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022).</p> <p>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.</p>
Ethyl acetate	<p>Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022).</p> <p>STEL, 15-min: 1468 mg/m³ 15 minutes. OEL, 8-h TWA: 734 mg/m³ 8 hours. STEL, 15-min: 400 ppm 15 minutes. OEL, 8-h TWA: 200 ppm 8 hours.</p>
Xylene	<p>Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). [xylenes (all isomers)] Absorbed through skin.</p> <p>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.</p>
Toluene	<p>Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022).</p> <p>OEL, 8-h TWA: 150 mg/m³ 8 hours. STEL, 15-min: 384 mg/m³ 15 minutes. STEL, 15-min: 100 ppm 15 minutes. OEL, 8-h TWA: 39 ppm 8 hours.</p>
Ethylbenzene	<p>Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). Absorbed through skin.</p> <p>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.</p>
Methyl methacrylate	<p>Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022).</p> <p>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.</p>

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n-Butyl acetate	<p>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.</p>
Ethyl acetate	<p>FOR-2011-12-06-1358 (Norway, 12/2022). Notes: indicative limit value TWA: 200 ppm 8 hours. TWA: 734 mg/m³ 8 hours. FOR-2011-12-06-1358 (Norway, 12/2022). STEL: 1468 mg/m³ 15 minutes. STEL: 400 ppm 15 minutes.</p>
Xylene	<p>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.</p>
Toluene	<p>FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through skin. Notes: indicative limit value TWA: 25 ppm 8 hours. TWA: 94 mg/m³ 8 hours.</p>
Ethylbenzene	<p>FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through skin. Carcinogen. Notes: indicative limit value TWA: 5 ppm 8 hours. TWA: 20 mg/m³ 8 hours.</p>
Methyl methacrylate	<p>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.</p>
n-Butyl acetate	<p>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.</p>
Ethyl acetate	<p>Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). TWA: 734 mg/m³ 8 hours. STEL: 1468 mg/m³ 15 minutes.</p>
Xylene	<p>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.</p>
Toluene	<p>Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). Absorbed through skin. TWA: 100 mg/m³ 8 hours. STEL: 200 mg/m³ 15 minutes.</p>
Ethylbenzene	<p>Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible</p>

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Methyl methacrylate	<p>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.</p> <p>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.</p>
n-Butyl acetate	<p>Portuguese Institute of Quality (Portugal, 11/2014). TWA: 150 ppm 8 hours. STEL: 200 ppm 15 minutes.</p>
Ethyl acetate	<p>Portuguese Institute of Quality (Portugal, 11/2014). TWA: 400 ppm 8 hours.</p>
Xylene	<p>Portuguese Institute of Quality (Portugal, 11/2014). [Xylene] TWA: 100 ppm 8 hours. STEL: 150 ppm 15 minutes.</p>
Toluene	<p>Portuguese Institute of Quality (Portugal, 11/2014). Absorbed through skin. TWA: 20 ppm 8 hours.</p>
Ethylbenzene	<p>Portuguese Institute of Quality (Portugal, 11/2014). TWA: 20 ppm 8 hours.</p>
Methyl methacrylate	<p>Portuguese Institute of Quality (Portugal, 11/2014). Skin sensitiser. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes.</p>
n-Butyl acetate	<p>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). VLA: 241 mg/m³ 8 hours. VLA: 50 ppm 8 hours. Short term: 723 mg/m³ 15 minutes. Short term: 150 ppm 15 minutes.</p>
Ethyl acetate	<p>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). VLA: 734 mg/m³ 8 hours. VLA: 200 ppm 8 hours. Short term: 1468 mg/m³ 15 minutes. Short term: 400 ppm 15 minutes.</p>
Xylene	<p>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). [Xylene] Absorbed through skin. VLA: 221 mg/m³ 8 hours. VLA: 50 ppm 8 hours. Short term: 442 mg/m³ 15 minutes. Short term: 100 ppm 15 minutes.</p>
Toluene	<p>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). Absorbed through skin. VLA: 192 mg/m³ 8 hours. VLA: 50 ppm 8 hours. Short term: 384 mg/m³ 15 minutes. Short term: 100 ppm 15 minutes.</p>
Ethylbenzene	<p>HG 1218/2006, Annex 1, with subsequent modifications and 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.</p>
Methyl methacrylate	<p>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.</p>

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n-Butyl acetate	<p>Short term: 100 ppm 15 minutes.</p> <p>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.</p>
Ethyl acetate	<p>Government regulation SR c. 355/2006 (Slovakia, 9/2020). TWA: 734 mg/m³ 8 hours. TWA: 200 ppm 8 hours. STEL: 1468 mg/m³ 15 minutes. STEL: 400 ppm 15 minutes.</p>
Xylene	<p>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.</p>
Toluene	<p>Government regulation SR c. 355/2006 (Slovakia, 9/2020). Absorbed through skin. TWA: 192 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 384 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes.</p>
Ethylbenzene	<p>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.</p>
Methyl methacrylate	<p>Government regulation SR c. 355/2006 (Slovakia, 9/2020). Skin sensitiser. STEL: 100 ppm 15 minutes. TWA: 50 ppm 8 hours.</p>
n-Butyl acetate	<p>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). TWA: 241 mg/m³ 8 hours. TWA: 50 ppm 8 hours. KTV: 723 mg/m³, 4 times per shift, 15 minutes. KTV: 150 ppm, 4 times per shift, 15 minutes.</p>
Ethyl acetate	<p>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). TWA: 734 mg/m³ 8 hours. TWA: 200 ppm 8 hours. KTV: 1468 mg/m³, 4 times per shift, 15 minutes. KTV: 400 ppm, 4 times per shift, 15 minutes.</p>
Xylene	<p>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.</p>
Toluene	<p>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). Absorbed through skin. TWA: 192 mg/m³ 8 hours. TWA: 50 ppm 8 hours. KTV: 384 mg/m³, 4 times per shift, 15 minutes. KTV: 100 ppm, 4 times per shift, 15 minutes.</p>
Ethylbenzene	<p>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.</p>

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Methyl methacrylate	<p>TWA: 100 ppm 8 hours. KTV: 884 mg/m³, 4 times per shift, 15 minutes. KTV: 200 ppm, 4 times per shift, 15 minutes.</p> <p>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021).</p> <p>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.</p>
n-Butyl acetate	<p>National institute of occupational safety and health (Spain, 4/2022).</p> <p>TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes.</p>
Ethyl acetate	<p>National institute of occupational safety and health (Spain, 4/2022).</p> <p>TWA: 200 ppm 8 hours. TWA: 734 mg/m³ 8 hours. STEL: 1468 mg/m³ 15 minutes. STEL: 400 ppm 15 minutes.</p>
Xylene	<p>National institute of occupational safety and health (Spain, 4/2022). [Xylene, mixture of isomers] Absorbed through skin.</p> <p>TWA: 50 ppm 8 hours. TWA: 221 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m³ 15 minutes.</p>
Toluene	<p>National institute of occupational safety and health (Spain, 4/2022). Absorbed through skin.</p> <p>TWA: 50 ppm 8 hours. TWA: 192 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 384 mg/m³ 15 minutes.</p>
Ethylbenzene	<p>National institute of occupational safety and health (Spain, 4/2022). Absorbed through skin.</p> <p>TWA: 100 ppm 8 hours. TWA: 441 mg/m³ 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m³ 15 minutes.</p>
Methyl methacrylate	<p>National institute of occupational safety and health (Spain, 4/2022). Skin sensitizer.</p> <p>TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes.</p>
n-Butyl acetate	<p>Work environment authority Regulation 2018:1 (Sweden, 9/2021). [butyl acetate]</p> <p>TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes.</p>
Ethyl acetate	<p>Work environment authority Regulation 2018:1 (Sweden, 9/2021).</p> <p>TWA: 150 ppm 8 hours. TWA: 550 mg/m³ 8 hours. STEL: 300 ppm 15 minutes. STEL: 1100 mg/m³ 15 minutes.</p>
Xylene	<p>Work environment authority Regulation 2018:1 (Sweden, 9/2021). [xylene] Absorbed through skin.</p> <p>TWA: 50 ppm 8 hours. TWA: 221 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m³ 15 minutes.</p>
Toluene	<p>Work environment authority Regulation 2018:1 (Sweden, 9/2021). Absorbed through skin. Ototoxicant.</p> <p>TWA: 50 ppm 8 hours.</p>

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Ethylbenzene	<p>TWA: 192 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 384 mg/m³ 15 minutes.</p> <p>Work environment authority Regulation 2018:1 (Sweden, 9/2021). Absorbed through skin.</p>
Methyl methacrylate	<p>TWA: 50 ppm 8 hours. TWA: 220 mg/m³ 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m³ 15 minutes.</p> <p>Work environment authority Regulation 2018:1 (Sweden, 9/2021). Skin sensitiser.</p>
n-Butyl acetate	<p>TWA: 50 ppm 8 hours. TWA: 200 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 400 mg/m³ 15 minutes.</p> <p>SUVA (Switzerland, 1/2023).</p>
Ethyl acetate	<p>TWA: 50 ppm 8 hours. TWA: 240 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 720 mg/m³ 15 minutes.</p> <p>SUVA (Switzerland, 1/2023).</p>
Xylene	<p>STEL: 400 ppm 15 minutes. STEL: 1460 mg/m³ 15 minutes. TWA: 200 ppm 8 hours. TWA: 730 mg/m³ 8 hours.</p> <p>SUVA (Switzerland, 1/2023). [Xylenes (all isomers)] Absorbed through skin.</p>
Toluene	<p>STEL: 100 ppm 15 minutes. STEL: 440 mg/m³ 15 minutes.</p> <p>SUVA (Switzerland, 1/2023). Absorbed through skin.</p>
Ethylbenzene	<p>TWA: 50 ppm 8 hours. TWA: 190 mg/m³ 8 hours. STEL: 200 ppm 15 minutes. STEL: 760 mg/m³ 15 minutes.</p> <p>SUVA (Switzerland, 1/2023). Absorbed through skin.</p>
Methyl methacrylate	<p>TWA: 50 ppm 8 hours. TWA: 220 mg/m³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 220 mg/m³ 15 minutes.</p> <p>SUVA (Switzerland, 1/2023). Skin sensitiser.</p>
n-Butyl acetate	<p>TWA: 50 ppm 8 hours. TWA: 210 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 420 mg/m³ 15 minutes.</p> <p>EH40/2005 WELs (United Kingdom (UK), 1/2020).</p>
Ethyl acetate	<p>STEL: 966 mg/m³ 15 minutes. STEL: 200 ppm 15 minutes. TWA: 724 mg/m³ 8 hours. TWA: 150 ppm 8 hours.</p> <p>EH40/2005 WELs (United Kingdom (UK), 1/2020).</p>
Xylene	<p>STEL: 400 ppm 15 minutes. TWA: 200 ppm 8 hours. STEL: 1468 mg/m³ 15 minutes. TWA: 734 mg/m³ 8 hours.</p> <p>EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-, p- or mixed isomers] Absorbed through skin.</p>
Toluene	<p>STEL: 441 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 220 mg/m³ 8 hours. STEL: 100 ppm 15 minutes.</p> <p>EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin.</p>

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Ethylbenzene	<p>STEL: 384 mg/m³ 15 minutes. TWA: 191 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 552 mg/m³ 15 minutes. STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours. TWA: 441 mg/m³ 8 hours.</p>
Methyl methacrylate	<p>EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 416 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 208 mg/m³ 8 hours. TWA: 50 ppm 8 hours.</p>

Biological exposure indices

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

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Toluene	<p>time: at the end of the work shift.</p> <p>Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018) BEI: 20 ppm, toluene [in end exhaled air]. Sampling time: during exposure. BEI: 0.83 µmol/l, toluene [in end exhaled air]. Sampling time: during exposure. BEI: 1 mg/l, toluene [in blood]. Sampling time: at the end of the work shift. BEI: 10.85 µmol/l, toluene [in blood]. Sampling time: at the end of the work shift. BEI: 1.05 mmol/mol creatinine, o-cresol [in urine]. Sampling time: at the end of the work shift. BEI: 1 mg/g creatinine, o-cresol [in urine]. Sampling time: at the end of the work shift. BEI: 1.58 mol/mol creatinine, hippuric acid [in urine]. Sampling time: at the end of the work shift. BEI: 2.5 g/g creatinine, hippuric acid [in urine]. Sampling time: at the end of the work shift.</p>
Ethylbenzene	<p>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.</p>
No exposure indices known.	
Xylene	<p>Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015) [Xylene] Biological limit values: 820 µmol/mmol creatinine, methylhippuric acid [in urine]. Sampling time: end of the shift. Biological limit values: 1400 mg/g creatinine, methylhippuric acid [in urine]. Sampling time: end of the shift.</p>
Toluene	<p>Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015) Biological limit values: 1000 µmol/mmol creatinine, hippuric acid [in urine]. Sampling time: end of the shift. Biological limit values: 1600 mg/g, hippuric acid [in urine]. Sampling time: end of the shift. Biological limit values: 1.6 µmol/mmol creatinine, o-kresol (after hydrolysis) [in urine]. Sampling time: end of the shift. Biological limit values: 1.5 mg/g creatinine, o-kresol (after hydrolysis) [in urine]. Sampling time: end of the shift.</p>
Ethylbenzene	<p>Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015) Biological limit values: 1100 µmol/mmol creatinine, almond acid [in urine]. Sampling time: end of the shift. Biological limit values: 1500 mg/g creatinine, almond acid [in urine]. Sampling time: end of the shift.</p>
No exposure indices known. No exposure indices known. No exposure indices known.	

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Xylene	<p>Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) [Xylene] BEI: 5 mmol/l, methylhippuric acid [in urine]. Sampling time: at the end of the work shift.</p>
Toluene	<p>Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) BEI: 500 nmol/l, toluene [in blood]. Sampling time: the morning after the working day.</p>
Ethylbenzene	<p>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.</p>
No exposure indices known.	
Xylene	<p>DFG BEI-values list (Germany, 7/2022) [Xylene (all isomers)] Notes: danger from percutaneous absorption (see p. 211 and p. 228). BEI: 2000 mg/l, methylhippuric acid (toluric acid) (all isomers) [in urine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 2/2022) [Xylene (all isomers)] BEI: 2000 mg/l, methylhippuric acid [in urine]. Sampling time: end of exposure or end of shift.</p>
Toluene	<p>DFG BEI-values list (Germany, 7/2022) Notes: danger from percutaneous absorption (see p. 211 and p. 228). BEI: 600 µg/l, toluene [in blood]. Sampling time: immediately after exposure. BEI: 1.5 mg/l, o-cresol (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift / for long-term exposures: at the end of the shift after several shifts. BEI: 75 µg/l, toluene [in urine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 2/2022) BEI: 600 µg/l, toluene [in whole blood]. Sampling time: immediately after exposure. BEI: 1.5 mg/l, o-cresol (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift; for long-term exposures: at the end of shift after several shifts. BEI: 75 µg/l, toluene [in urine]. Sampling time: end of exposure or end of shift.</p>
Ethylbenzene	<p>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.</p>
No exposure indices known.	
Xylene	<p>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.</p>
Toluene	<p>5/2020. (II. 6.) ITM Decree (Hungary, 12/2022) BEI: 1 mg/g creatinine, o-cresol [in urine]. Sampling time: at the end of the shift. BEI: 1 µmol/mmol creatinine, o-cresol [in urine]. Sampling time: at the end of the shift.</p>
Ethylbenzene	

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No exposure indices known.	<p>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.</p>
Xylene	<p>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.</p>
Toluene	<p>NAOSH (Ireland, 1/2011) BMGV: 0.3 mg/g creatinine, o-cresol [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases. BMGV: 0.03 mg/l, toluene [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases. BMGV: 0.02 mg/l, toluene [in blood]. Sampling time: prior to last shift of workweek.</p>
Ethylbenzene	<p>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.</p>
No exposure indices known.	
Toluene	<p>Minister Cabinet Regulations No.325 - BEI (Latvia, 7/2018) BEI: 0.05 mg/l, toluene [in blood]. BEI: 1.6 g/g creatinine, hippuric acid [in urine]. Sampling time: end of the shift.</p>
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
Xylene	<p>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.</p>
Toluene	<p>Portuguese Institute of Quality (Portugal, 11/2014) BEI: 0.3 mg/g creatinine, o-cresol [in urine]. Sampling time: end of shift. BEI: 0.03 mg/l, toluene [in urine]. Sampling time: end of shift. BEI: 0.02 mg/l, toluene [in blood]. Sampling time: end of shift at the end of the workweek.</p>
Ethylbenzene	<p>Portuguese Institute of Quality (Portugal, 11/2014)</p>

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Xylene	<p>BEI: 0.7 g/g creatinine, sum of mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift.</p> <p>HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2020) [Xylene]</p> <p>OBLV: 3 g/l, methylhippuric acid [in urine]. Sampling time: end of shift.</p>
Toluene	<p>HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2020)</p> <p>OBLV: 3 mg/l, o-cresol [in urine]. Sampling time: end of shift.</p> <p>OBLV: 2 g/l, hippuric acid [in urine]. Sampling time: end of shift.</p>
Ethylbenzene	<p>HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2020)</p> <p>OBLV: 1.5 g/g creatinine, mandelic acid [in urine]. Sampling time: end of the week.</p>
Xylene	<p>Government regulation SR c. 355/2006 (Slovakia, 9/2020) [xylene, all isomers]</p> <p>BLV: 781 µmol/mmol creatinine, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift.</p> <p>BLV: 1334 mg/g creatinine, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift.</p> <p>BLV: 10355 µmol/l, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift.</p> <p>BLV: 14.6 µmol/l, xylene [in blood]. Sampling time: at the end of exposure or work shift.</p> <p>BLV: 2000 mg/l, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift.</p> <p>BLV: 1.5 mg/l, xylene [in blood]. Sampling time: at the end of exposure or work shift.</p>
Toluene	<p>Government regulation SR c. 355/2006 (Slovakia, 9/2020)</p> <p>BLV: 1010 µmol/mmol creatinine, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift.</p> <p>BLV: 1.08 µmol/mmol creatinine, o-cresol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.</p> <p>BLV: 1600 mg/g creatinine, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift.</p> <p>BLV: 1.03 mg/g creatinine, o-cresol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.</p> <p>BLV: 13399 µmol/l, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift.</p> <p>BLV: 14.3 µmol/l, o-cresol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.</p> <p>BLV: 6517 nmol/l, toluene [in blood]. Sampling time: at the end of exposure or work shift.</p> <p>BLV: 2401 mg/l, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift.</p> <p>BLV: 1.5 mg/l, o-cresol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.</p> <p>BLV: 600 µg/l, toluene [in blood]. Sampling time: at the end of exposure or work shift.</p>
Ethylbenzene	<p>Government regulation SR c. 355/2006 (Slovakia, 9/2020)</p> <p>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.</p> <p>BLV: 7.44 µmol/mmol creatinine, 2 or 4-ethylfenol [in urine].</p>

SECTION 8: Exposure controls/personal protection

	<p>Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.</p> <p>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.</p> <p>BLV: 8.03 mg/g creatinine, 2 or 4-ethylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.</p> <p>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.</p> <p>BLV: 98.6 µmol/l, 2 or 4-ethylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.</p> <p>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.</p> <p>BLV: 12 mg/l, 2 or 4-ethylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.</p>
Xylene	<p>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) [xylene (all isomers)]</p> <p>BAT: 2 g/l, methylhippuric acid (all isomers) [in urine]. Sampling time: at the end of the work shift.</p>
Toluene	<p>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021)</p> <p>BAT: 1.5 mg/l, o-cresol (after hydrolysis) [in urine]. Sampling time: at the end of the work shift, at long-term exposure: at the end of the work shift after several consecutive workdays.</p> <p>BAT: 600 µg/l, toluene [in blood]. Sampling time: immediately after exposure.</p> <p>BAT: 75 µg/l, toluene [in urine]. Sampling time: at the end of the work shift.</p>
Ethylbenzene	<p>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021)</p> <p>BAT: 250 mg/g creatinine, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of the work shift.</p>
Xylene	<p>National institute of occupational safety and health (Spain, 4/2022) [Xylenes]</p> <p>VLB: 1 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift.</p>
Toluene	<p>National institute of occupational safety and health (Spain, 4/2022)</p> <p>VLB: 0.05 mg/l, toluene [in blood]. Sampling time: prior to last shift of workweek.</p> <p>VLB: 0.6 mg/g creatinine, o-cresol [in urine]. Sampling time: end of shift.</p> <p>VLB: 0.08 mg/l, toluene [in urine]. Sampling time: end of shift.</p>
Ethylbenzene	<p>National institute of occupational safety and health (Spain, 4/2022)</p> <p>VLB: 700 mg/g creatinine, sum of mandelic acid and acid and phenylglyoxylic acid [in urine]. Sampling time: end of workweek.</p>
No exposure indices known.	

SECTION 8: Exposure controls/personal protection

Xylene	<p>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.</p>
Toluene	<p>SUVA (Switzerland, 1/2023) BEI: 2 g/g creatinine, hippuric acid [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift. BEI: 1.26 mmol/mmol creatinine, hippuric acid [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift. BEI: 0.5 mg/l, o-cresol [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift. BEI: 4.62 µmol/l, o-cresol [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift. BEI: 600 µg/l, toluene [in blood]. Sampling time: immediately after exposure or after working hours. BEI: 6.48 µmol/l, toluene [in blood]. Sampling time: immediately after exposure or after working hours. BEI: 75 µg/l, toluene [in urine]. Sampling time: immediately after exposure or after working hours.</p>
Ethylbenzene	<p>SUVA (Switzerland, 1/2023) BEI: 600 mg/g creatinine, mandelic acid + phenylglyoxylic acid [in urine]. Sampling time: immediately after exposure or after working hours.</p>
Xylene	<p>EH40/2005 BMGVs (United Kingdom (UK), 8/2018) [Xylene, o-, m-, p- or mixed isomers] BGV: 650 mmol/mol creatinine, methyl hippuric acid [in urine]. Sampling time: post shift.</p>

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 bw/day	General population	Systemic
	DNEL	Long term Oral	2 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	6 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	11 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	35.7 mg/m ³	General population	Local
	DNEL	Short term Inhalation	300 mg/m ³	General population	Local
	DNEL	Short term Inhalation	300 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	300 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	600 mg/m ³	Workers	Local

SECTION 8: Exposure controls/personal protection

Ethyl acetate	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 Inhalation	12 mg/m ³	General population	Systemic	
	DNEL	Long term Inhalation	48 mg/m ³	Workers	Systemic	
	DNEL	Long term Oral	4.5 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	37 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	63 mg/kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	367 mg/m ³	General population	Local	
	DNEL	Long term Inhalation	367 mg/m ³	General population	Systemic	
	DNEL	Short term Inhalation	734 mg/m ³	General population	Local	
	DNEL	Short term Inhalation	734 mg/m ³	General population	Systemic	
	DNEL	Long term Inhalation	734 mg/m ³	Workers	Local	
	DNEL	Long term Inhalation	734 mg/m ³	Workers	Systemic	
	DNEL	Short term Inhalation	1468 mg/m ³	Workers	Local	
	DNEL	Short term Inhalation	1468 mg/m ³	Workers	Systemic	
	Xylene	DNEL	Long term Inhalation	65.3 mg/m ³	General population	Local
DNEL		Short term Inhalation	260 mg/m ³	General population	Local	
DNEL		Short term Inhalation	260 mg/m ³	General population	Systemic	
DNEL		Long term Inhalation	221 mg/m ³	Workers	Local	
DNEL		Long term Oral	12.5 mg/kg bw/day	General population	Systemic	
DNEL		Long term Inhalation	65.3 mg/m ³	General population	Systemic	
DNEL		Long term Dermal	125 mg/kg bw/day	General population	Systemic	
DNEL		Long term Dermal	212 mg/kg bw/day	Workers	Systemic	
DNEL		Long term Inhalation	221 mg/m ³	Workers	Systemic	
DNEL		Short term Inhalation	442 mg/m ³	Workers	Local	
DNEL		Short term Inhalation	442 mg/m ³	Workers	Systemic	
Toluene		DNEL	Long term Oral	8.13 mg/kg bw/day	General population	Systemic
		DNEL	Long term Inhalation	56.5 mg/m ³	General population	Local
		DNEL	Long term Inhalation	56.5 mg/m ³	General population	Systemic
		DNEL	Long term Inhalation	192 mg/m ³	Workers	Local
		DNEL	Long term Inhalation	192 mg/m ³	Workers	Systemic
		DNEL	Long term Dermal	226 mg/kg bw/day	General population	Systemic

SECTION 8: Exposure controls/personal protection

Ethylbenzene	DNEL	Short term Inhalation	226 mg/m ³	General population	Local
	DNEL	Short term Inhalation	226 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	384 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	384 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	384 mg/m ³	Workers	Systemic
	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	15 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	77 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	293 mg/m ³	Workers	Local
Methyl methacrylate	DMEL	Long term Inhalation	442 mg/m ³	Workers	Local
	DMEL	Short term Inhalation	884 mg/m ³	Workers	Systemic
	DNEL	Long term Oral	8.2 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	208 mg/m ³	General population	Local
	DNEL	Short term Inhalation	416 mg/m ³	Workers	Local
	DNEL	Short term Dermal	1.5 mg/cm ²	General population	Local
	DNEL	Long term Dermal	1.5 mg/cm ²	General population	Local
	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 bw/day	General population	Systemic
DNEL	Long term Dermal	13.67 mg/kg bw/day	Workers	Systemic	
DNEL	Long term Inhalation	74.3 mg/m ³	General population	Systemic	
DNEL	Long term Inhalation	104 mg/m ³	General population	Local	
DNEL	Long term Inhalation	208 mg/m ³	Workers	Local	
DNEL	Long term Inhalation	348.4 mg/m ³	Workers	Systemic	

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls

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

Individual protection measures

SECTION 8: Exposure controls/personal protection

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Recommendations : Wear suitable gloves tested to EN374.
- < 1 hour (breakthrough time): Nitrile gloves. thickness > 0.3 mm
- 1 - 4 hours (breakthrough time): 4H / Silver Shield® gloves.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
- Filter type: A
- Filter type (spray application): A P
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Appearance

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

SECTION 9: Physical and chemical properties

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

- Flammability** : Not available.
Lower and upper explosion limit : Lower: 0.8%
Upper: 11.5%
Flash point : Closed cup: -1°C (30.2°F)
Auto-ignition temperature :

Ingredient name	°C	°F	Method
n-Butyl acetate	415	779	EU A.15
Ethyl acetate	426.67	800	

- Decomposition temperature** : Not available.
pH : Not applicable.
Viscosity : Not available.
Solubility(ies) :
Not available.
Solubility in water : Not available.
Partition coefficient: n-octanol/ water : Not applicable.
Vapour pressure :

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

- Relative density** : Not available.
Density : 1 g/cm³
Vapour 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

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
n-Butyl acetate	LC50 Inhalation Vapour	Rat	0.74 mg/l	4 hours
	LD50 Dermal	Rabbit	14112 mg/kg	-
	LD50 Oral	Rat	10760 mg/kg	-
Ethyl acetate	LD50 Oral	Rat	5620 mg/kg	-
Xylene	LC50 Inhalation Vapour	Rat	21.7 mg/l	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
Toluene	LC50 Inhalation Vapour	Rat	49 g/m ³	4 hours
	LD50 Oral	Rat	636 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	-

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

Acute toxicity estimates

Route	ATE value
Dermal	7410.84 mg/kg
Inhalation (vapours)	59.98 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 mg	-
Xylene	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5 mg	-
	Skin - Mild irritant	Rat	-	8 hours 60 uL	-
Toluene	Skin - Moderate irritant	Rabbit	-	100 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Mild irritant	Rabbit	-	0.5 minutes	-
	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Eyes - Severe irritant	Rabbit	-	870 ug	-
	Skin - Mild irritant	Pig	-	24 hours 2 mg	-
Ethylbenzene	Skin - Mild irritant	Rabbit	-	24 hours 250 uL	-
	Skin - Moderate irritant	Rabbit	-	435 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Skin - Moderate irritant	Rabbit	-	500 mg	-
	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15 mg	-

Conclusion/Summary : Causes skin irritation.

Sensitisation

Conclusion/Summary : May cause an allergic skin reaction.

Mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

SECTION 11: Toxicological information

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

Teratogenicity

Conclusion/Summary : Suspected of damaging the unborn child.

Specific target organ toxicity (single exposure)

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

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

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

Information on likely routes of exposure : Not available.

Potential acute health effects

Eye contact : Causes serious eye irritation.

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

Skin contact : Causes skin irritation. 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 : Adverse symptoms may include the following:
pain or irritation
watering
redness

Inhalation : Adverse symptoms may include the following:
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
reduced foetal weight
increase in foetal deaths
skeletal malformations

Skin contact : Adverse symptoms may include the following:
irritation
redness
reduced foetal weight
increase in foetal deaths
skeletal malformations

SECTION 11: Toxicological information

Ingestion : Adverse symptoms may include the following:
 reduced foetal weight
 increase in foetal deaths
 skeletal malformations

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

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary : Not available.

General : May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : Suspected of damaging the unborn child.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
n-Butyl acetate	Acute LC50 32 mg/l Marine water	Crustaceans - <i>Artemia salina</i>	48 hours
Ethyl acetate	Acute LC50 18000 µg/l Fresh water	Fish - <i>Pimephales promelas</i>	96 hours
	Acute EC50 2500000 µg/l Fresh water	Algae - <i>Selenastrum sp.</i>	96 hours
	Acute LC50 750000 µg/l Fresh water	Crustaceans - <i>Gammarus pulex</i>	48 hours
	Acute LC50 154000 µg/l Fresh water	Daphnia - <i>Daphnia cucullata</i>	48 hours
	Acute LC50 212500 µg/l Fresh water	Fish - <i>Heteropneustes fossilis</i>	96 hours
	Chronic NOEC 12 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days
Toluene	Chronic NOEC 75.6 mg/l Fresh water	Fish - <i>Pimephales promelas</i> - Embryo	32 days
	Acute EC50 12500 µg/l Fresh water	Algae - <i>Pseudokirchneriella subcapitata</i>	72 hours
	Acute EC50 11600 µg/l Fresh water	Crustaceans - <i>Gammarus pseudolimnaeus</i> - Adult	48 hours
	Acute EC50 5.56 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
Methyl methacrylate	Acute LC50 5500 µg/l Fresh water	Fish - <i>Oncorhynchus kisutch</i> - Fry	96 hours
	Chronic NOEC 1000 µg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days
	Acute LC50 130000 µg/l Fresh water	Fish - <i>Pimephales promelas</i> - Adult	96 hours

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

SECTION 12: Ecological information

12.2 Persistence and degradability

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

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
n-Butyl acetate	2.3	-	Low
Ethyl acetate	0.68	30	Low
Xylene	3.12	8.1 to 25.9	Low
Toluene	2.73	90	Low
Ethylbenzene	3.6	-	Low
Methyl methacrylate	1.38	-	Low

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

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





European waste catalogue (EWC) : 08.01.11

Packaging

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

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

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	UN1993	UN1993	UN1993	UN1993
14.2 UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (n-butyl acetate, ethyl acetate)	FLAMMABLE LIQUID, N.O.S. (n-butyl acetate, ethyl acetate)	FLAMMABLE LIQUID, N.O.S. (ethyl acetate, xylene)	FLAMMABLE LIQUID, N.O.S. (ethyl acetate, xylene)
14.3 Transport hazard class(es)	3 	3 	3 	3 
14.4 Packing group	II	II	II	II
14.5 Environmental hazards	No.	Yes.	No.	No.

Additional information

ADR/RID : **Special provisions** 640 (C)
Tunnel code (D/E)

ADN : The product is only regulated as an environmentally hazardous substance when transported in tank vessels.
Special provisions 640 (C)

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

14.7 Maritime transport in bulk according to IMO instruments : Not relevant/applicable due to nature of the product.

SECTION 15: Regulatory information

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

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

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

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

Product/ingredient name	%	Designation [Usage]
ALPOCRYL KLARLACK 5453-30	≥90	3
Toluene	<10	48

Labelling :

Other EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

SECTION 15: Regulatory information

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

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

VbF class : A I
Very dangerous flammable liquid.

Limitation of the use of organic solvents : Permitted.

Czech Republic

Storage code : I

Denmark

Danish fire class : I-1

Executive Order No. 1795/2015

Ingredient name	Annex I Section A	Annex I Section B
Ethylbenzene	Listed	-

MAL-code : 4-3

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

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

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

MAL-code: 4-3

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

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

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

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

During downtimes, cleaning and repair in closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents.

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

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

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

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

- Air-supplied full mask must be worn.

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

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

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

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

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

*See Regulations.

- Low-boiling liquids** : This product contains low-boiling point liquids. Any respiratory protective equipment should be air-fed.
- Restrictions on use** : Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At Work.
- List of undesirable substances** : Listed
- Carcinogenic waste** : Waste containers must be labeled: Contains a substance or substances regulated by Danish working environment legislation on cancer risks.

Finland

France

- Social Security Code, Articles L 461-1 to L 461-7** :
- | | |
|---------------------|----------------|
| n-Butyl acetate | RG 84 |
| Ethyl acetate | RG 84 |
| Xylene | RG 4bis, RG 84 |
| Toluene | RG 4bis, RG 84 |
| Ethylbenzene | RG 84 |
| Methyl methacrylate | RG 82 |

- 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

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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: 82.8%
TA-Luft Class I - Number 5.2.5: 8.7%

Italy

D.Lgs. 152/06 : Not determined.

Netherlands

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

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

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

Norway

Sweden

Flammable liquid class (SRVFS 2005:10) : 1

Switzerland

VOC content : VOC (w/w): 71%

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

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

SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

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

SECTION 16: Other information

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

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

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications [CLP/GHS]

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

Date of issue/ Date of revision : 02/04/2024

Date of previous issue : No previous validation

Version : 1

ALPOCRYL KLARLACK 5453-30

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.

