

SAFETY DATA SHEET



AC EMAILLACK FM 3021-80 - All variants

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

1.1 Product identifier

Product name : AC EMAILLACK FM 3021-80 - 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 Dam. 1, H318

Carc. 2, H351

STOT SE 3, H336

Aquatic Chronic 3, H412

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

Ingredients of unknown toxicity : 24.4 percent of the mixture consists of component(s) of unknown acute oral toxicity
24.4 percent of the mixture consists of component(s) of unknown acute dermal toxicity
24.4 percent of the mixture consists of component(s) of unknown acute inhalation toxicity

Ingredients of unknown ecotoxicity : Contains 24.4% of components with unknown hazards to the aquatic environment

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

SECTION 2: Hazards identification

Hazard statements	: H225 - Highly flammable liquid and vapour. H315 - Causes skin irritation. H318 - Causes serious eye damage. H336 - May cause drowsiness or dizziness. H351 - Suspected of causing cancer. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: P280 - Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Response	: P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
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; Methylisobutylketone; Butan-1-ol and iso-butanol
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	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1] [2]
Methylisobutylketone	REACH #: 01-2119473980-30 EC: 203-550-1 CAS: 108-10-1 Index: 606-004-00-4	≥10 - ≤25	Flam. Liq. 2, H225 Acute Tox. 4, H332 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336 EUH066	ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
Butan-1-ol	REACH #: 01-2119484630-38 EC: 200-751-6 CAS: 71-36-3 Index: 603-004-00-6	≤8.6	Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	ATE [Oral] = 790 mg/kg	[1]

Date of issue/Date of revision : 26/09/2024 Date of previous issue : No previous validation Version : 1 2/58

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acetone	REACH #: 01-2119471330-49 EC: 200-662-2 CAS: 67-64-1 Index: 606-001-00-8	≤10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	EUH066: C ≥ 25%	[1] [2]
iso-butanol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≤4.8	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1]
1-Methoxy 2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≤5	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
Xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≤2.7	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]
Solvent naphtha (petroleum), light arom.	EC: 265-199-0 CAS: 64742-95-6	≤1.9	Flam. Liq. 3, H226 Acute Tox. 4, H332 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	ATE [Inhalation (vapours)] = 11 mg/ l	[1]
2-Methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7	≤3	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
1,2,4-trimethylbenzene	EC: 202-436-9 CAS: 95-63-6 Index: 601-043-00-3	≤1.8	Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 2, H411	ATE [Inhalation (vapours)] = 18 mg/ l	[1] [2]
Toluene	REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	<3	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 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

SECTION 3: Composition/information on ingredients

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

SECTION 4: First aid measures

4.1 Description of first aid measures

- Eye contact** : Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.
- Inhalation** : Get medical attention immediately. Call a poison center or physician. 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. 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** : Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of 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. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain
watering
redness
- Inhalation** : Adverse symptoms may include the following:
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
- Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
- Ingestion** : Adverse symptoms may include the following:
stomach pains

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.

SECTION 4: First aid measures

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. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous combustion products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

5.3 Advice for firefighters

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

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

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

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

SECTION 6: Accidental release measures

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

6.4 Reference to other sections : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

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

7.2 Conditions for safe storage, including any incompatibilities

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

Seveso Directive - Reporting thresholds

Danger criteria

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.
Methylisobutylketone	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed through skin. TWA: 20 ppm 8 hours. TWA: 83 mg/m ³ 8 hours. PEAK: 50 ppm, 4 times per shift, 15 minutes. PEAK: 208 mg/m ³ , 4 times per shift, 15 minutes.
Butan-1-ol	Regulation on Limit Values - MAC (Austria, 4/2021). [Butanol (all isomers except 2-methyl-2-propanol)] PEAK: 200 ppm, 4 times per shift, 15 minutes. TWA: 150 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. PEAK: 600 mg/m ³ , 4 times per shift, 15 minutes.
acetone	Regulation on Limit Values - MAC (Austria, 4/2021). TWA: 500 ppm 8 hours. TWA: 1200 mg/m ³ 8 hours. PEAK: 2000 ppm, 4 times per shift, 15 minutes. PEAK: 4800 mg/m ³ , 4 times per shift, 15 minutes.
iso-butanol	Regulation on Limit Values - MAC (Austria, 4/2021). [Butanol (all isomers except 2-methyl-2-propanol)] PEAK: 200 ppm, 4 times per shift, 15 minutes. TWA: 150 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. PEAK: 600 mg/m ³ , 4 times per shift, 15 minutes.
1-Methoxy 2-propanol	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 187 mg/m ³ 8 hours. CEIL: 50 ppm CEIL: 187 mg/m ³
Xylene	Regulation on Limit Values - MAC (Austria, 4/2021). [Xylenes (all isomers)] PEAK: 442 mg/m ³ , 4 times per shift, 15 minutes. TWA: 50 ppm 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes. TWA: 221 mg/m ³ 8 hours.
2-Methoxy-1-methylethyl acetate	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 275 mg/m ³ 8 hours. CEIL: 100 ppm, 8 times per shift, 5 minutes. CEIL: 550 mg/m ³ , 8 times per shift, 5 minutes.
1,2,4-trimethylbenzene	Regulation on Limit Values - MAC (Austria, 4/2021). [Trimethylbenzenes (all isomers)] PEAK: 30 ppm, 4 times per shift, 15 minutes. TWA: 100 mg/m ³ 8 hours. PEAK: 150 mg/m ³ , 4 times per shift, 15 minutes. TWA: 20 ppm 8 hours.
Toluene	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed through skin. TWA: 50 ppm 8 hours.

SECTION 8: Exposure controls/personal protection

n-Butyl acetate	<p>TWA: 190 mg/m³ 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes. PEAK: 380 mg/m³, 4 times per shift, 15 minutes.</p> <p>Limit values (Belgium, 5/2021). [butyl acetate, all isomers] STEL: 712 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 238 mg/m³ 8 hours. TWA: 50 ppm 8 hours.</p>
Methylisobutylketone	<p>Limit values (Belgium, 5/2021). TWA: 20 ppm 8 hours. TWA: 83 mg/m³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 208 mg/m³ 15 minutes.</p>
Butan-1-ol	<p>Limit values (Belgium, 5/2021). Absorbed through skin. TWA: 20 ppm 8 hours. TWA: 62 mg/m³ 8 hours.</p>
acetone	<p>Limit values (Belgium, 5/2021). TWA: 246 ppm 8 hours. TWA: 594 mg/m³ 8 hours. STEL: 492 ppm 15 minutes. STEL: 1187 mg/m³ 15 minutes.</p>
iso-butanol	<p>Limit values (Belgium, 5/2021). TWA: 50 ppm 8 hours. TWA: 154 mg/m³ 8 hours.</p>
1-Methoxy 2-propanol	<p>Limit values (Belgium, 5/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 184 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 369 mg/m³ 15 minutes.</p>
Xylene	<p>Limit values (Belgium, 5/2021). [Xylene] Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 221 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m³ 15 minutes.</p>
2-Methoxy-1-methylethyl acetate	<p>Limit values (Belgium, 5/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 275 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m³ 15 minutes.</p>
1,2,4-trimethylbenzene	<p>Limit values (Belgium, 5/2021). [Trimethylbenzene] TWA: 20 ppm 8 hours. TWA: 100 mg/m³ 8 hours.</p>
Toluene	<p>Limit values (Belgium, 5/2021). Absorbed through skin. TWA: 20 ppm 8 hours. TWA: 77 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 384 mg/m³ 15 minutes.</p>
n-Butyl acetate	<p>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Limit value 8 hours: 241 mg/m³ 8 hours. Limit value 15 min: 723 mg/m³ 15 minutes. Limit value 15 min: 150 ppm 15 minutes. Limit value 8 hours: 50 ppm 8 hours.</p>
Methylisobutylketone	<p>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Limit value 8 hours: 50 mg/m³ 8 hours. Limit value 15 min: 200 mg/m³ 15 minutes.</p>
Butan-1-ol	<p>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Limit value 8 hours: 100 mg/m³ 8 hours. Limit value 15 min: 150 mg/m³ 15 minutes.</p>
acetone	<p>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021).</p>

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1-Methoxy 2-propanol	<p>Limit value 8 hours: 600 mg/m³ 8 hours. Limit value 15 min: 1400 mg/m³ 15 minutes.</p> <p>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed through skin.</p>
Xylene	<p>Limit value 8 hours: 375 mg/m³ 8 hours. Limit value 15 min: 568 mg/m³ 15 minutes. Limit value 15 min: 150 ppm 15 minutes. Limit value 8 hours: 100 ppm 8 hours.</p> <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>
2-Methoxy-1-methylethyl acetate	<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> <p>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed through skin.</p>
1,2,4-trimethylbenzene	<p>Limit value 8 hours: 275 mg/m³ 8 hours. Limit value 15 min: 550 mg/m³ 15 minutes. Limit value 15 min: 100 ppm 15 minutes. Limit value 8 hours: 50 ppm 8 hours.</p> <p>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021).</p>
Toluene	<p>Limit value 8 hours: 100 mg/m³ 8 hours. Limit value 8 hours: 20 ppm 8 hours.</p> <p>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed through skin.</p>
n-Butyl acetate	<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> <p>Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021).</p>
Methylisobutylketone	<p>STELV: 723 mg/m³ 15 minutes. STELV: 150 ppm 15 minutes. ELV: 241 mg/m³ 8 hours. ELV: 50 ppm 8 hours.</p> <p>Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021).</p>
Butan-1-ol	<p>STELV: 208 mg/m³ 15 minutes. STELV: 50 ppm 15 minutes. ELV: 83 mg/m³ 8 hours. ELV: 20 ppm 8 hours.</p> <p>Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). Absorbed through skin.</p>
acetone	<p>STELV: 154 mg/m³ 15 minutes. STELV: 50 ppm 15 minutes.</p> <p>Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021).</p>
iso-butanol	<p>ELV: 1210 mg/m³ 8 hours. ELV: 500 ppm 8 hours.</p> <p>Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). Absorbed through skin.</p>
1-Methoxy 2-propanol	<p>STELV: 231 mg/m³ 15 minutes. STELV: 75 ppm 15 minutes. ELV: 154 mg/m³ 8 hours. ELV: 50 ppm 8 hours.</p> <p>Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021).</p>
1-Methoxy 2-propanol	<p>STELV: 568 mg/m³ 15 minutes. STELV: 150 ppm 15 minutes.</p>

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Xylene	<p>ELV: 375 mg/m³ 8 hours. ELV: 100 ppm 8 hours. Ministry of Economy, Labour and Entrepreneurship ELV/STELV (Croatia, 1/2021). [xylene (all isomers)] Absorbed through skin. STELV: 442 mg/m³ 15 minutes. STELV: 100 ppm 15 minutes. ELV: 221 mg/m³ 8 hours. ELV: 50 ppm 8 hours.</p>
2-Methoxy-1-methylethyl acetate	<p>Ministry of Economy, Labour and Entrepreneurship ELV/STELV (Croatia, 1/2021). Absorbed through skin. STELV: 550 mg/m³ 15 minutes. STELV: 100 ppm 15 minutes. ELV: 275 mg/m³ 8 hours. ELV: 50 ppm 8 hours.</p>
1,2,4-trimethylbenzene	<p>Ministry of Economy, Labour and Entrepreneurship ELV/STELV (Croatia, 1/2021). ELV: 100 mg/m³ 8 hours. ELV: 20 ppm 8 hours.</p>
Toluene	<p>Ministry of Economy, Labour and Entrepreneurship ELV/STELV (Croatia, 1/2021). Absorbed through skin. STELV: 384 mg/m³ 15 minutes. STELV: 100 ppm 15 minutes. ELV: 192 mg/m³ 8 hours. ELV: 50 ppm 8 hours.</p>
n-Butyl acetate	<p>Department of labour inspection (Cyprus, 7/2021). STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 8 hours.</p>
Methylisobutylketone	<p>Department of labour inspection (Cyprus, 7/2021). STEL: 50 ppm 15 minutes. STEL: 208 mg/m³ 15 minutes. TWA: 20 ppm 8 hours. TWA: 83 mg/m³ 8 hours.</p>
acetone	<p>Department of labour inspection (Cyprus, 7/2021). Absorbed through skin. TWA: 500 ppm 8 hours. TWA: 1210 mg/m³ 8 hours.</p>
1-Methoxy 2-propanol	<p>Department of labour inspection (Cyprus, 7/2021). Absorbed through skin. STEL: 150 ppm 15 minutes. STEL: 568 mg/m³ 15 minutes. TWA: 100 ppm 8 hours. TWA: 375 mg/m³ 8 hours.</p>
Xylene	<p>Department of labour inspection (Cyprus, 7/2021). [Xylene, mixed isomers] Absorbed through skin. STEL: 100 ppm 15 minutes. STEL: 442 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 221 mg/m³ 8 hours.</p>
2-Methoxy-1-methylethyl acetate	<p>Department of labour inspection (Cyprus, 7/2021). Absorbed through skin. STEL: 100 ppm 15 minutes. STEL: 550 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 275 mg/m³ 8 hours.</p>
1,2,4-trimethylbenzene	<p>Department of labour inspection (Cyprus, 7/2021). TWA: 20 ppm 8 hours. TWA: 100 mg/m³ 8 hours.</p>
Toluene	<p>Department of labour inspection (Cyprus, 7/2021). Absorbed through skin. STEL: 100 ppm 15 minutes. STEL: 384 mg/m³ 15 minutes.</p>

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n-Butyl acetate	<p>TWA: 50 ppm 8 hours. TWA: 192 mg/m³ 8 hours.</p> <p>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). TWA: 241 mg/m³ 8 hours. STEL: 723 mg/m³ 15 minutes. STEL: 149.661 ppm 15 minutes. TWA: 49.887 ppm 8 hours.</p>
Methylisobutylketone	<p>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). Absorbed through skin. TWA: 80 mg/m³ 8 hours. TWA: 19.2 ppm 8 hours. STEL: 200 mg/m³ 15 minutes. STEL: 48 ppm 15 minutes.</p>
Butan-1-ol	<p>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). [Butanol (all isomers)] Absorbed through skin. TWA: 300 mg/m³ 8 hours. TWA: 97.5 ppm 8 hours. STEL: 600 mg/m³ 15 minutes. STEL: 195 ppm 15 minutes.</p>
acetone	<p>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). TWA: 800 mg/m³ 8 hours. STEL: 1500 mg/m³ 15 minutes. STEL: 621 ppm 15 minutes. TWA: 331.2 ppm 8 hours.</p>
iso-butanol	<p>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). [Butanol (all isomers)] Absorbed through skin. TWA: 300 mg/m³ 8 hours. TWA: 97.5 ppm 8 hours. STEL: 600 mg/m³ 15 minutes. STEL: 195 ppm 15 minutes.</p>
1-Methoxy 2-propanol	<p>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). Absorbed through skin. TWA: 270 mg/m³ 8 hours. TWA: 72.09 ppm 8 hours. STEL: 550 mg/m³ 15 minutes. STEL: 146.85 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. 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>
Solvent naphtha (petroleum), light arom.	<p>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). [Nafta solvents] TWA: 200 mg/m³ 8 hours. STEL: 1000 mg/m³ 15 minutes.</p>
2-Methoxy-1-methylethyl acetate	<p>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). Absorbed through skin. TWA: 270 mg/m³ 8 hours. TWA: 49.14 ppm 8 hours. STEL: 550 mg/m³ 15 minutes. STEL: 100.1 ppm 15 minutes.</p>
1,2,4-trimethylbenzene	<p>Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). Absorbed through skin. TWA: 100 mg/m³ 8 hours. TWA: 20 ppm 8 hours. STEL: 250 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes.</p>
Toluene	<p>Government regulation of Czech Republic PEL/NPK-P (Czech</p>

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n-Butyl acetate	<p>Republic, 10/2022). Absorbed through skin. TWA: 192 mg/m³ 8 hours. TWA: 50.112 ppm 8 hours. STEL: 384 mg/m³ 15 minutes. STEL: 100.224 ppm 15 minutes.</p> <p>Working Environment Authority (Denmark, 6/2022). [Butyl acetate, all isomers] TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 8 hours. STEL: 723 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes.</p>
Methylisobutylketone	<p>Working Environment Authority (Denmark, 6/2022). Absorbed through skin. TWA: 20 ppm 8 hours. TWA: 83 mg/m³ 8 hours. STEL: 208 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes.</p>
Butan-1-ol	<p>Working Environment Authority (Denmark, 6/2022). [Butanol, all isomers] Absorbed through skin. CEIL: 50 ppm CEIL: 150 mg/m³</p>
acetone	<p>Working Environment Authority (Denmark, 6/2022). TWA: 250 ppm 8 hours. TWA: 600 mg/m³ 8 hours. STEL: 1200 mg/m³ 15 minutes. STEL: 500 ppm 15 minutes.</p>
iso-butanol	<p>Working Environment Authority (Denmark, 6/2022). [Butanol, all isomers] Absorbed through skin. CEIL: 50 ppm CEIL: 150 mg/m³</p>
1-Methoxy 2-propanol	<p>Working Environment Authority (Denmark, 6/2022). [1-methoxy-2-propanol] Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 185 mg/m³ 8 hours. STEL: 568 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes.</p>
Xylene	<p>Working Environment Authority (Denmark, 6/2022). [Xylenes, all isomers] Absorbed through skin. TWA: 25 ppm 8 hours. TWA: 109 mg/m³ 8 hours. STEL: 442 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes.</p>
2-Methoxy-1-methylethyl acetate	<p>Working Environment Authority (Denmark, 6/2022). [2-Methoxy-1-methylethyl acetate] Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 275 mg/m³ 8 hours. STEL: 550 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes.</p>
1,2,4-trimethylbenzene	<p>Working Environment Authority (Denmark, 6/2022). [Trimethylbenzenes] TWA: 20 ppm 8 hours. TWA: 100 mg/m³ 8 hours. STEL: 200 mg/m³ 15 minutes. STEL: 40 ppm 15 minutes.</p>
Toluene	<p>Working Environment Authority (Denmark, 6/2022). Absorbed through skin. TWA: 25 ppm 8 hours. TWA: 94 mg/m³ 8 hours. STEL: 384 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes.</p>

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n-Butyl acetate	<p>Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). STEL: 150 ppm 15 minutes. STEL: 723 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 241 mg/m³ 8 hours.</p>
Methylisobutylketone	<p>Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). TWA: 83 mg/m³ 8 hours. TWA: 20 ppm 8 hours. STEL: 208 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes.</p>
Butan-1-ol	<p>Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). Absorbed through skin. TWA: 45 mg/m³ 8 hours. TWA: 15 ppm 8 hours. STEL: 90 mg/m³ 5 minutes. STEL: 30 ppm 5 minutes.</p>
acetone	<p>Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). TWA: 1210 mg/m³ 8 hours. TWA: 500 ppm 8 hours.</p>
iso-butanol	<p>Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). TWA: 150 mg/m³ 8 hours. TWA: 50 ppm 8 hours.</p>
1-Methoxy 2-propanol	<p>Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). Absorbed through skin. Skin sensitiser. TWA: 375 mg/m³ 8 hours. TWA: 100 ppm 8 hours. STEL: 568 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes.</p>
Xylene	<p>Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). [Xylenes] Absorbed through skin. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. STEL: 450 mg/m³ 15 minutes. TWA: 200 mg/m³ 8 hours.</p>
2-Methoxy-1-methylethyl acetate	<p>Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). Absorbed through skin. Skin sensitiser. STEL: 100 ppm 15 minutes. STEL: 550 mg/m³ 15 minutes. TWA: 275 mg/m³ 8 hours. TWA: 50 ppm 8 hours.</p>
1,2,4-trimethylbenzene	<p>Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). TWA: 20 ppm 8 hours. TWA: 100 mg/m³ 8 hours.</p>
Toluene	<p>Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). Absorbed through skin. TWA: 192 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 384 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes.</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>
Methylisobutylketone	<p>EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values TWA: 20 ppm 8 hours. TWA: 83 mg/m³ 8 hours.</p>

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acetone	<p>STEL: 50 ppm 15 minutes. STEL: 208 mg/m³ 15 minutes. EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values TWA: 500 ppm 8 hours. TWA: 1210 mg/m³ 8 hours.</p>
1-Methoxy 2-propanol	<p>EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 100 ppm 8 hours. TWA: 375 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 568 mg/m³ 15 minutes.</p>
Xylene	<p>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>
2-Methoxy-1-methylethyl acetate	<p>EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 50 ppm 8 hours. TWA: 275 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m³ 15 minutes.</p>
1,2,4-trimethylbenzene	<p>EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values TWA: 20 ppm 8 hours. TWA: 100 mg/m³ 8 hours.</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>
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>
Methylisobutylketone	<p>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). TWA: 20 ppm 8 hours. TWA: 80 mg/m³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 210 mg/m³ 15 minutes.</p>
Butan-1-ol	<p>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 150 mg/m³ 8 hours. STEL: 75 ppm 15 minutes. STEL: 230 mg/m³ 15 minutes.</p>
acetone	<p>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). TWA: 500 ppm 8 hours. TWA: 1200 mg/m³ 8 hours. STEL: 630 ppm 15 minutes. STEL: 1500 mg/m³ 15 minutes.</p>
iso-butanol	<p>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). [Butanols] Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 150 mg/m³ 8 hours. STEL: 75 ppm 15 minutes.</p>

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1-Methoxy 2-propanol	<p>STEL: 230 mg/m³ 15 minutes. Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). Absorbed through skin. TWA: 100 ppm 8 hours. TWA: 370 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 560 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>
2-Methoxy-1-methylethyl acetate	<p>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 270 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m³ 15 minutes.</p>
1,2,4-trimethylbenzene	<p>Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). TWA: 20 ppm 8 hours. TWA: 100 mg/m³ 8 hours.</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>
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>
Methylisobutylketone	<p>Ministry of Labor (France, 10/2022). Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA: 20 ppm 8 hours. TWA: 83 mg/m³ 8 hours. STEL: 208 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes.</p>
Butan-1-ol	<p>Ministry of Labor (France, 10/2022). Notes: Permissible limit values (circulars) STEL: 50 ppm 15 minutes. STEL: 150 mg/m³ 15 minutes.</p>
acetone	<p>Ministry of Labor (France, 10/2022). Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA: 500 ppm 8 hours. TWA: 1210 mg/m³ 8 hours. STEL: 2420 mg/m³ 15 minutes. STEL: 1000 ppm 15 minutes.</p>
iso-butanol	<p>Ministry of Labor (France, 10/2022). Notes: Permissible limit values (circulars) TWA: 50 ppm 8 hours. TWA: 150 mg/m³ 8 hours.</p>
1-Methoxy 2-propanol	<p>Ministry of Labor (France, 10/2022). Absorbed through skin. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA: 50 ppm 8 hours. TWA: 188 mg/m³ 8 hours. STEL: 375 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes.</p>
Xylene	<p>Ministry of Labor (France, 10/2022). [xylenes, mixed isomers, pure] Absorbed through skin. Notes: Binding regulatory limit</p>

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Solvent naphtha (petroleum), light arom.	<p>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> <p>Ministry of Labor (France, 10/2022). [hydrocarbons C6-C12] Notes: Permissible limit values (circulars) TWA: 1000 mg/m³ 8 hours. Form: Vapour STEL: 1500 mg/m³ 15 minutes. Form: Vapour</p>
2-Methoxy-1-methylethyl acetate	<p>Ministry of Labor (France, 10/2022). Absorbed through skin. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL: 550 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 275 mg/m³ 8 hours. TWA: 50 ppm 8 hours.</p>
1,2,4-trimethylbenzene	<p>Ministry of Labor (France, 10/2022). Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA: 20 ppm 8 hours. TWA: 100 mg/m³ 8 hours. STEL: 250 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes.</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>
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.</p> <p>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>
Methylisobutylketone	<p>TRGS 900 OEL (Germany, 6/2022). Absorbed through skin. TWA: 83 mg/m³ 8 hours. PEAK: 166 mg/m³ 15 minutes. TWA: 20 ppm 8 hours. PEAK: 40 ppm 15 minutes.</p> <p>DFG MAC-values list (Germany, 7/2022). Absorbed through skin. TWA: 20 ppm 8 hours. PEAK: 40 ppm, 4 times per shift, 15 minutes. TWA: 83 mg/m³ 8 hours. PEAK: 166 mg/m³, 4 times per shift, 15 minutes.</p>
Butan-1-ol	<p>TRGS 900 OEL (Germany, 6/2022). TWA: 310 mg/m³ 8 hours. PEAK: 310 mg/m³ 15 minutes. TWA: 100 ppm 8 hours. PEAK: 100 ppm 15 minutes.</p> <p>DFG MAC-values list (Germany, 7/2022). TWA: 100 ppm 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes. TWA: 310 mg/m³ 8 hours. PEAK: 310 mg/m³, 4 times per shift, 15 minutes.</p>
acetone	<p>TRGS 900 OEL (Germany, 6/2022). TWA: 1200 mg/m³ 8 hours. PEAK: 2400 mg/m³ 15 minutes. TWA: 500 ppm 8 hours.</p>

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iso-butanol	<p>PEAK: 1000 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). TWA: 500 ppm 8 hours. PEAK: 1000 ppm, 4 times per shift, 15 minutes. TWA: 1200 mg/m³ 8 hours. PEAK: 2400 mg/m³, 4 times per shift, 15 minutes. TRGS 900 OEL (Germany, 6/2022). TWA: 310 mg/m³ 8 hours. PEAK: 310 mg/m³ 15 minutes. TWA: 100 ppm 8 hours. PEAK: 100 ppm 15 minutes.</p>
1-Methoxy 2-propanol	<p>DFG MAC-values list (Germany, 7/2022). TWA: 100 ppm 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes. TWA: 310 mg/m³ 8 hours. PEAK: 310 mg/m³, 4 times per shift, 15 minutes. TRGS 900 OEL (Germany, 6/2022). TWA: 370 mg/m³ 8 hours. PEAK: 740 mg/m³ 15 minutes. TWA: 100 ppm 8 hours. PEAK: 200 ppm 15 minutes.</p>
Xylene	<p>DFG MAC-values list (Germany, 7/2022). TWA: 100 ppm 8 hours. PEAK: 200 ppm, 4 times per shift, 15 minutes. TWA: 370 mg/m³ 8 hours. PEAK: 740 mg/m³, 4 times per shift, 15 minutes. TRGS 900 OEL (Germany, 6/2022). [xylene] Absorbed through skin. TWA: 220 mg/m³ 8 hours. PEAK: 440 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. PEAK: 100 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). [Xylene (all isomers)] Absorbed through skin. TWA: 50 ppm 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes. TWA: 220 mg/m³ 8 hours. PEAK: 440 mg/m³, 4 times per shift, 15 minutes.</p>
2-Methoxy-1-methylethyl acetate	<p>TRGS 900 OEL (Germany, 6/2022). TWA: 270 mg/m³ 8 hours. PEAK: 270 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. PEAK: 50 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). TWA: 50 ppm 8 hours. PEAK: 50 ppm, 4 times per shift, 15 minutes. TWA: 270 mg/m³ 8 hours. PEAK: 270 mg/m³, 4 times per shift, 15 minutes.</p>
1,2,4-trimethylbenzene	<p>TRGS 900 OEL (Germany, 6/2022). TWA: 100 mg/m³ 8 hours. PEAK: 200 mg/m³ 15 minutes. TWA: 20 ppm 8 hours. PEAK: 40 ppm 15 minutes. DFG MAC-values list (Germany, 7/2022). [Trimethylbenzene (all isomers)] TWA: 20 ppm 8 hours. TWA: 100 mg/m³ 8 hours. PEAK: 200 mg/m³, 4 times per shift, 15 minutes. PEAK: 40 ppm, 4 times per shift, 15 minutes.</p>
Toluene	<p>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.</p>

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n-Butyl acetate	<p>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.</p> <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>
Methylisobutylketone	<p>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). Absorbed through skin. TWA: 100 ppm 8 hours. TWA: 410 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 410 mg/m³ 15 minutes.</p>
Butan-1-ol	<p>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). Absorbed through skin. TWA: 100 ppm 8 hours. TWA: 300 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 300 mg/m³ 15 minutes.</p>
acetone	<p>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). TWA: 1780 mg/m³ 8 hours. STEL: 3560 mg/m³ 15 minutes.</p>
iso-butanol	<p>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). TWA: 100 ppm 8 hours. TWA: 300 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 300 mg/m³ 15 minutes.</p>
1-Methoxy 2-propanol	<p>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). Absorbed through skin. TWA: 100 ppm 8 hours. TWA: 360 mg/m³ 8 hours. STEL: 300 ppm 15 minutes. STEL: 1080 mg/m³ 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>
2-Methoxy-1-methylethyl acetate	<p>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 275 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m³ 15 minutes.</p>
1,2,4-trimethylbenzene	<p>Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). TWA: 25 ppm 8 hours. TWA: 125 mg/m³ 8 hours.</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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n-Butyl acetate	<p>5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Skin sensitiser. Inhalation sensitiser. TWA: 241 mg/m³ 8 hours. PEAK: 723 mg/m³ 15 minutes. PEAK: 150 ppm 15 minutes. TWA: 50 ppm 8 hours.</p>
Methylisobutylketone	<p>5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). TWA: 83 mg/m³ 8 hours. PEAK: 208 mg/m³ 15 minutes. PEAK: 50 ppm 15 minutes. TWA: 20 ppm 8 hours.</p>
Butan-1-ol	<p>5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed through skin. Skin sensitiser. Inhalation sensitiser. TWA: 45 mg/m³ 8 hours. PEAK: 90 mg/m³ 15 minutes.</p>
acetone	<p>5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Skin sensitiser. Inhalation sensitiser. TWA: 1210 mg/m³ 8 hours. TWA: 500 ppm 8 hours.</p>
1-Methoxy 2-propanol	<p>5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed through skin. TWA: 375 mg/m³ 8 hours. PEAK: 568 mg/m³ 15 minutes. PEAK: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.</p>
Xylene	<p>5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). [xylene, mixture of isomers] Absorbed through skin. TWA: 221 mg/m³ 8 hours. PEAK: 442 mg/m³ 15 minutes. PEAK: 100 ppm 15 minutes. TWA: 50 ppm 8 hours.</p>
2-Methoxy-1-methylethyl acetate	<p>5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). TWA: 275 mg/m³ 8 hours. PEAK: 550 mg/m³ 15 minutes. PEAK: 100 ppm 15 minutes. TWA: 50 ppm 8 hours.</p>
1,2,4-trimethylbenzene	<p>5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). TWA: 100 mg/m³ 8 hours. TWA: 20 ppm 8 hours.</p>
Toluene	<p>5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed through skin. Skin sensitiser. Inhalation sensitiser. TWA: 192 mg/m³ 8 hours. PEAK: 384 mg/m³ 15 minutes. PEAK: 100 ppm 15 minutes. TWA: 50 ppm 8 hours.</p>
n-Butyl acetate	<p>Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). [butyl acetate, all isomers] TWA: 241 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 723 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes.</p>
Methylisobutylketone	<p>Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). Absorbed through skin. STEL: 208 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes. TWA: 83 mg/m³ 8 hours. TWA: 20 ppm 8 hours.</p>
Butan-1-ol	<p>Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). Absorbed through skin. STEL: 150 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes. TWA: 80 mg/m³ 8 hours. TWA: 25 ppm 8 hours.</p>
acetone	<p>Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021).</p>

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iso-butanol	<p>TWA: 600 mg/m³ 8 hours. TWA: 250 ppm 8 hours.</p> <p>Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). [butanol, all isomers, except n-butanol] Absorbed through skin.</p> <p>STEL: 150 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes.</p>
1-Methoxy 2-propanol	<p>Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). Absorbed through skin.</p> <p>STEL: 568 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 185 mg/m³ 8 hours. TWA: 50 ppm 8 hours.</p>
Xylene	<p>Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). [xylene, all isomers] Absorbed through skin.</p> <p>STEL: 442 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 109 mg/m³ 8 hours. TWA: 25 ppm 8 hours.</p>
2-Methoxy-1-methylethyl acetate	<p>Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). Absorbed through skin.</p> <p>STEL: 550 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 275 mg/m³ 8 hours. TWA: 50 ppm 8 hours.</p>
1,2,4-trimethylbenzene	<p>Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). [trimethylbenzenes]</p> <p>TWA: 100 mg/m³ 8 hours. TWA: 20 ppm 8 hours.</p>
Toluene	<p>Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). Absorbed through skin.</p> <p>STEL: 188 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes. TWA: 94 mg/m³ 8 hours. TWA: 25 ppm 8 hours.</p>
n-Butyl acetate	<p>NAOSH (Ireland, 5/2021). Notes: EU derived Occupational Exposure Limit Values</p> <p>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>
Methylisobutylketone	<p>NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values</p> <p>OELV-8hr: 20 ppm 8 hours. OELV-8hr: 83 mg/m³ 8 hours. OELV-15min: 50 ppm 15 minutes. OELV-15min: 208 mg/m³ 15 minutes.</p>
Butan-1-ol	<p>NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs)</p> <p>OELV-8hr: 20 ppm 8 hours.</p>
acetone	<p>NAOSH (Ireland, 5/2021). Notes: EU derived Occupational Exposure Limit Values</p> <p>OELV-8hr: 500 ppm 8 hours. OELV-8hr: 1210 mg/m³ 8 hours.</p>
iso-butanol	<p>NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs)</p> <p>OELV-8hr: 50 ppm 8 hours. OELV-8hr: 150 mg/m³ 8 hours. OELV-15min: 75 ppm 15 minutes. OELV-15min: 225 mg/m³ 15 minutes.</p>
1-Methoxy 2-propanol	<p>NAOSH (Ireland, 5/2021). Notes: EU derived Occupational Exposure Limit Values</p> <p>OELV-8hr: 100 ppm 8 hours. OELV-8hr: 375 mg/m³ 8 hours.</p>

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Xylene	<p>OELV-15min: 150 ppm 15 minutes. OELV-15min: 568 mg/m³ 15 minutes. NAOSH (Ireland, 5/2021). [xylene mixed isomers] Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV-8hr: 50 ppm 8 hours. OELV-8hr: 221 mg/m³ 8 hours. OELV-15min: 100 ppm 15 minutes. OELV-15min: 442 mg/m³ 15 minutes.</p>
2-Methoxy-1-methylethyl acetate	<p>NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV-8hr: 50 ppm 8 hours. OELV-8hr: 275 mg/m³ 8 hours. OELV-15min: 100 ppm 15 minutes. OELV-15min: 550 mg/m³ 15 minutes.</p>
1,2,4-trimethylbenzene	<p>NAOSH (Ireland, 5/2021). Notes: EU derived Occupational Exposure Limit Values OELV-8hr: 100 mg/m³ 8 hours. OELV-8hr: 20 ppm 8 hours.</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>
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>
Methylisobutylketone	<p>Legislative Decree No. 819/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020). 8 hours: 20 ppm 8 hours. 8 hours: 83 mg/m³ 8 hours. Short Term: 50 ppm 15 minutes. Short Term: 208 mg/m³ 15 minutes.</p>
acetone	<p>Legislative Decree No. 819/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020). 8 hours: 500 ppm 8 hours. 8 hours: 1210 mg/m³ 8 hours.</p>
1-Methoxy 2-propanol	<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: 375 mg/m³ 8 hours. Short Term: 150 ppm 15 minutes. Short Term: 568 mg/m³ 15 minutes.</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. 8 hours: 221 mg/m³ 8 hours. Short Term: 100 ppm 15 minutes. Short Term: 442 mg/m³ 15 minutes.</p>
2-Methoxy-1-methylethyl acetate	<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: 275 mg/m³ 8 hours. Short Term: 100 ppm 15 minutes. Short Term: 550 mg/m³ 15 minutes.</p>
1,2,4-trimethylbenzene	<p>Legislative Decree No. 819/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020).</p>

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Toluene	<p>8 hours: 20 ppm 8 hours. 8 hours: 100 mg/m³ 8 hours.</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>
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>
Methylisobutylketone	<p>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). TWA: 83 mg/m³ 8 hours. TWA: 20 ppm 8 hours. STEL: 50 ppm 15 minutes. STEL: 208 mg/m³ 15 minutes.</p>
Butan-1-ol	<p>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). [Butylalcohol] TWA: 10 mg/m³ 8 hours.</p>
acetone	<p>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). TWA: 1210 mg/m³ 8 hours. TWA: 500 ppm 8 hours.</p>
iso-butanol	<p>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). [Butylalcohol] TWA: 10 mg/m³ 8 hours.</p>
1-Methoxy 2-propanol	<p>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). Absorbed through skin. TWA: 100 ppm 8 hours. STEL: 568 mg/m³ 15 minutes. TWA: 375 mg/m³ 8 hours. STEL: 150 ppm 15 minutes.</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>
2-Methoxy-1-methylethyl acetate	<p>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 275 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m³ 15 minutes.</p>
1,2,4-trimethylbenzene	<p>Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). TWA: 20 ppm 8 hours. TWA: 100 mg/m³ 8 hours.</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>
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>
Methylisobutylketone	<p>Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). TWA: 83 mg/m³ 8 hours. TWA: 20 ppm 8 hours. STEL: 208 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes.</p>
Butan-1-ol	<p>Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022).</p>

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acetone	<p>Absorbed through skin. TWA: 45 mg/m³ 8 hours. TWA: 15 ppm 8 hours. CEIL: 90 mg/m³ CEIL: 30 ppm</p> <p>Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). TWA: 1210 mg/m³ 8 hours. TWA: 500 ppm 8 hours. STEL: 2420 mg/m³ 15 minutes. STEL: 1000 ppm 15 minutes.</p>
iso-butanol	<p>Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Absorbed through skin. TWA: 10 mg/m³ 8 hours.</p>
1-Methoxy 2-propanol	<p>Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Absorbed through skin. TWA: 190 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 300 mg/m³ 15 minutes. STEL: 75 ppm 15 minutes.</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. TWA: 221 mg/m³ 8 hours.</p>
2-Methoxy-1-methylethyl acetate	<p>Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Absorbed through skin. TWA: 250 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 400 mg/m³ 15 minutes. STEL: 75 ppm 15 minutes.</p>
1,2,4-trimethylbenzene	<p>Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). [Trimethylbenzene and its isomers] TWA: 100 mg/m³ 8 hours. TWA: 20 ppm 8 hours.</p>
Toluene	<p>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>
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>
Methylisobutylketone	<p>Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). TWA: 20 ppm 8 hours. TWA: 83 mg/m³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 208 mg/m³ 15 minutes.</p>
acetone	<p>Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). TWA: 500 ppm 8 hours. TWA: 1210 mg/m³ 8 hours.</p>
1-Methoxy 2-propanol	<p>Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). Absorbed through skin. TWA: 100 ppm 8 hours. TWA: 375 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 568 mg/m³ 15 minutes.</p>
Xylene	<p>Grand-Duchy Regulation 2016. Chemical agents. Annex I</p>

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2-Methoxy-1-methylethyl acetate	<p>(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. Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 275 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m³ 15 minutes.</p>
1,2,4-trimethylbenzene	<p>Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). TWA: 20 ppm 8 hours. TWA: 100 mg/m³ 8 hours.</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>
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>
Methylisobutylketone	<p>EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values TWA: 20 ppm 8 hours. TWA: 83 mg/m³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 208 mg/m³ 15 minutes.</p>
acetone	<p>EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values TWA: 500 ppm 8 hours. TWA: 1210 mg/m³ 8 hours.</p>
1-Methoxy 2-propanol	<p>EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 100 ppm 8 hours. TWA: 375 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 568 mg/m³ 15 minutes.</p>
Xylene	<p>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>
2-Methoxy-1-methylethyl acetate	<p>EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 50 ppm 8 hours. TWA: 275 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m³ 15 minutes.</p>
1,2,4-trimethylbenzene	<p>EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values TWA: 20 ppm 8 hours. TWA: 100 mg/m³ 8 hours.</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.</p>

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n-Butyl acetate	<p>TWA: 50 ppm 8 hours. STEL: 384 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes.</p> <p>Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). OEL, 8-h TWA: 241 mg/m³ 8 hours. STEL, 15-min: 723 mg/m³ 15 minutes. STEL, 15-min: 150 ppm 15 minutes. OEL, 8-h TWA: 50 ppm 8 hours.</p>
Methylisobutylketone	<p>Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). OEL, 8-h TWA: 104 mg/m³ 8 hours. STEL, 15-min: 208 mg/m³ 15 minutes. OEL, 8-h TWA: 25 ppm 8 hours. STEL, 15-min: 50 ppm 15 minutes.</p>
acetone	<p>Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). STEL, 15-min: 2420 mg/m³ 15 minutes. OEL, 8-h TWA: 1210 mg/m³ 8 hours. OEL, 8-h TWA: 500 ppm 8 hours. STEL, 15-min: 1000 ppm 15 minutes.</p>
1-Methoxy 2-propanol	<p>Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). Absorbed through skin. OEL, 8-h TWA: 375 mg/m³ 8 hours. STEL, 15-min: 563 mg/m³ 15 minutes. OEL, 8-h TWA: 100 ppm 8 hours. STEL, 15-min: 150 ppm 15 minutes.</p>
Xylene	<p>Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). [xylenes (all isomers)] Absorbed through skin. OEL, 8-h TWA: 210 mg/m³ 8 hours. STEL, 15-min: 442 mg/m³ 15 minutes. STEL, 15-min: 100 ppm 15 minutes. OEL, 8-h TWA: 47.5 ppm 8 hours.</p>
2-Methoxy-1-methylethyl acetate	<p>Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). OEL, 8-h TWA: 550 mg/m³ 8 hours. OEL, 8-h TWA: 100 ppm 8 hours.</p>
1,2,4-trimethylbenzene	<p>Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). OEL, 8-h TWA: 100 mg/m³ 8 hours. STEL, 15-min: 200 mg/m³ 15 minutes. OEL, 8-h TWA: 20 ppm 8 hours. STEL, 15-min: 40 ppm 15 minutes.</p>
Toluene	<p>Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). OEL, 8-h TWA: 150 mg/m³ 8 hours. STEL, 15-min: 384 mg/m³ 15 minutes. STEL, 15-min: 100 ppm 15 minutes. OEL, 8-h TWA: 39 ppm 8 hours.</p>
n-Butyl acetate	<p>FOR-2011-12-06-1358 (Norway, 12/2022). STEL: 723 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes.</p> <p>FOR-2011-12-06-1358 (Norway, 12/2022). Notes: indicative limit value TWA: 241 mg/m³ 8 hours. TWA: 50 ppm 8 hours.</p>
Methylisobutylketone	<p>FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through skin. Notes: indicative limit value TWA: 20 ppm 8 hours. TWA: 83 mg/m³ 8 hours.</p> <p>FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through skin. STEL: 50 ppm 15 minutes.</p>

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Butan-1-ol	<p>STEL: 208 mg/m³ 15 minutes. FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through skin.</p>
acetone	<p>CEIL: 75 mg/m³ CEIL: 25 ppm FOR-2011-12-06-1358 (Norway, 12/2022). Notes: indicative limit value</p>
iso-butanol	<p>TWA: 125 ppm 8 hours. TWA: 295 mg/m³ 8 hours. FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through skin.</p>
1-Methoxy 2-propanol	<p>CEIL: 75 mg/m³ CEIL: 25 ppm FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through skin. Notes: indicative limit value</p>
Xylene	<p>TWA: 50 ppm 8 hours. TWA: 180 mg/m³ 8 hours. FOR-2011-12-06-1358 (Norway, 12/2022). [Xylene, all isomers] Absorbed through skin. Notes: indicative limit value</p>
2-Methoxy-1-methylethyl acetate	<p>TWA: 25 ppm 8 hours. TWA: 108 mg/m³ 8 hours. FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through skin. Notes: indicative limit value</p>
1,2,4-trimethylbenzene	<p>TWA: 50 ppm 8 hours. TWA: 270 mg/m³ 8 hours. FOR-2011-12-06-1358 (Norway, 12/2022). Notes: indicative limit value</p>
Toluene	<p>TWA: 100 mg/m³ 8 hours. TWA: 20 ppm 8 hours. FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through skin. Notes: indicative limit value</p>
n-Butyl acetate	<p>TWA: 25 ppm 8 hours. TWA: 94 mg/m³ 8 hours. Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021).</p>
Methylisobutylketone	<p>TWA: 240 mg/m³ 8 hours. STEL: 720 mg/m³ 15 minutes. Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021).</p>
Butan-1-ol	<p>TWA: 83 mg/m³ 8 hours. STEL: 200 mg/m³ 15 minutes. Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). Absorbed through skin.</p>
acetone	<p>TWA: 50 mg/m³ 8 hours. STEL: 150 mg/m³ 15 minutes. Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021).</p>
iso-butanol	<p>TWA: 600 mg/m³ 8 hours. STEL: 1800 mg/m³ 15 minutes. Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible</p>

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1-Methoxy 2-propanol	<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: 100 mg/m³ 8 hours. STEL: 200 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). Absorbed through skin. TWA: 180 mg/m³ 8 hours. STEL: 360 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>
2-Methoxy-1-methylethyl 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). Absorbed through skin. TWA: 260 mg/m³ 8 hours. STEL: 520 mg/m³ 15 minutes.</p>
1,2,4-trimethylbenzene	<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). [trimethyl benzene – mixed isomers (1,2,3-, 1,2,4- and 1,3,5-)] Absorbed through skin. TWA: 100 mg/m³ 8 hours. STEL: 170 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>
n-Butyl acetate	<p>Portuguese Institute of Quality (Portugal, 11/2014). TWA: 150 ppm 8 hours. STEL: 200 ppm 15 minutes.</p>
Methylisobutylketone	<p>Portuguese Institute of Quality (Portugal, 11/2014). TWA: 20 ppm 8 hours. STEL: 75 ppm 15 minutes.</p>
Butan-1-ol	<p>Portuguese Institute of Quality (Portugal, 11/2014). TWA: 20 ppm 8 hours.</p>
acetone	<p>Portuguese Institute of Quality (Portugal, 11/2014). TWA: 500 ppm 8 hours. STEL: 750 ppm 15 minutes.</p>
iso-butanol	<p>Portuguese Institute of Quality (Portugal, 11/2014). TWA: 50 ppm 8 hours.</p>
1-Methoxy 2-propanol	<p>Portuguese Institute of Quality (Portugal, 11/2014). TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes.</p>
Xylene	<p>Portuguese Institute of Quality (Portugal, 11/2014). [Xylene] TWA: 100 ppm 8 hours. STEL: 150 ppm 15 minutes.</p>
2-Methoxy-1-methylethyl acetate	<p>EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values</p>

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1,2,4-trimethylbenzene	<p>TWA: 50 ppm 8 hours. TWA: 275 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m³ 15 minutes. Portuguese Institute of Quality (Portugal, 11/2014). [Trimethylbenzene, mixture of isomers]</p>
Toluene	<p>TWA: 25 ppm 8 hours. Portuguese Institute of Quality (Portugal, 11/2014). Absorbed through skin.</p>
n-Butyl acetate	<p>TWA: 20 ppm 8 hours. 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>
Methylisobutylketone	<p>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). VLA: 83 mg/m³ 8 hours. VLA: 20 ppm 8 hours. Short term: 208 mg/m³ 15 minutes. Short term: 50 ppm 15 minutes.</p>
Butan-1-ol	<p>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). VLA: 100 mg/m³ 8 hours. VLA: 33 ppm 8 hours. Short term: 200 mg/m³ 15 minutes. Short term: 66 ppm 15 minutes.</p>
acetone	<p>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). VLA: 1210 mg/m³ 8 hours. VLA: 500 ppm 8 hours.</p>
iso-butanol	<p>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). VLA: 100 mg/m³ 8 hours. VLA: 33 ppm 8 hours. Short term: 200 mg/m³ 15 minutes. Short term: 66 ppm 15 minutes.</p>
1-Methoxy 2-propanol	<p>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). Absorbed through skin. VLA: 375 mg/m³ 8 hours. VLA: 100 ppm 8 hours. Short term: 568 mg/m³ 15 minutes. Short term: 150 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>
Solvent naphtha (petroleum), light arom.	<p>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). [Solvent naphtha] Absorbed through skin. VLA: 100 mg/m³ 8 hours. Short term: 200 mg/m³ 15 minutes.</p>
2-Methoxy-1-methylethyl acetate	<p>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). Absorbed through skin. VLA: 275 mg/m³ 8 hours. VLA: 50 ppm 8 hours. Short term: 550 mg/m³ 15 minutes. Short term: 100 ppm 15 minutes.</p>
1,2,4-trimethylbenzene	<p>HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). VLA: 100 mg/m³ 8 hours.</p>

SECTION 8: Exposure controls/personal protection

Toluene	<p>VLA: 20 ppm 8 hours. 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>
n-Butyl acetate	<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>
Methylisobutylketone	<p>Government regulation SR c. 355/2006 (Slovakia, 9/2020). Absorbed through skin. TWA: 83 mg/m³ 8 hours. TWA: 20 ppm 8 hours. STEL: 166 mg/m³ 15 minutes. STEL: 40 ppm 15 minutes.</p>
Butan-1-ol	<p>Government regulation SR c. 355/2006 (Slovakia, 9/2020). [Butyl alcohols] TWA: 310 mg/m³, (Butyl alcohols) 8 hours. TWA: 100 ppm, (Butyl alcohols) 8 hours.</p>
acetone	<p>Government regulation SR c. 355/2006 (Slovakia, 9/2020). TWA: 1210 mg/m³ 8 hours. TWA: 500 ppm 8 hours.</p>
iso-butanol	<p>Government regulation SR c. 355/2006 (Slovakia, 9/2020). [Butyl alcohols] TWA: 310 mg/m³, (Butyl alcohols) 8 hours. TWA: 100 ppm, (Butyl alcohols) 8 hours.</p>
1-Methoxy 2-propanol	<p>Government regulation SR c. 355/2006 (Slovakia, 9/2020). Absorbed through skin. TWA: 375 mg/m³ 8 hours. TWA: 100 ppm 8 hours. STEL: 568 mg/m³ 15 minutes. STEL: 150 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>
2-Methoxy-1-methylethyl acetate	<p>Government regulation SR c. 355/2006 (Slovakia, 9/2020). Absorbed through skin. TWA: 275 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 550 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes.</p>
1,2,4-trimethylbenzene	<p>Government regulation SR c. 355/2006 (Slovakia, 9/2020). [Trimethylbenzene, all isomers] TWA: 100 mg/m³, (Trimethylbenzene, all isomers) 8 hours. TWA: 20 ppm, (Trimethylbenzene, all isomers) 8 hours.</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>

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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>
Methylisobutylketone	<p>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). Absorbed through skin. TWA: 83 mg/m³ 8 hours. TWA: 20 ppm 8 hours. KTV: 208 mg/m³, 4 times per shift, 15 minutes. KTV: 50 ppm, 4 times per shift, 15 minutes.</p>
Butan-1-ol	<p>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). TWA: 310 mg/m³ 8 hours. TWA: 100 ppm 8 hours. KTV: 310 mg/m³, 4 times per shift, 15 minutes. KTV: 100 ppm, 4 times per shift, 15 minutes.</p>
acetone	<p>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). TWA: 1210 mg/m³ 8 hours. TWA: 500 ppm 8 hours. KTV: 1000 ppm, 4 times per shift, 15 minutes. KTV: 2420 mg/m³, 4 times per shift, 15 minutes.</p>
iso-butanol	<p>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). TWA: 310 mg/m³ 8 hours. TWA: 100 ppm 8 hours. KTV: 310 mg/m³, 4 times per shift, 15 minutes. KTV: 100 ppm, 4 times per shift, 15 minutes.</p>
1-Methoxy 2-propanol	<p>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). Absorbed through skin. TWA: 375 mg/m³ 8 hours. TWA: 100 ppm 8 hours. KTV: 568 mg/m³, 4 times per shift, 15 minutes. KTV: 150 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>
2-Methoxy-1-methylethyl acetate	<p>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). Absorbed through skin. TWA: 275 mg/m³ 8 hours. TWA: 50 ppm 8 hours. KTV: 550 mg/m³, 4 times per shift, 15 minutes. KTV: 100 ppm, 4 times per shift, 15 minutes.</p>
1,2,4-trimethylbenzene	<p>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). TWA: 100 mg/m³ 8 hours. TWA: 20 ppm 8 hours. KTV: 40 ppm, 4 times per shift, 15 minutes. KTV: 200 mg/m³, 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.</p>

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n-Butyl acetate	<p>KTV: 100 ppm, 4 times per shift, 15 minutes.</p> <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>
Methylisobutylketone	<p>National institute of occupational safety and health (Spain, 4/2022).</p> <p>TWA: 20 ppm 8 hours. TWA: 83 mg/m³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 208 mg/m³ 15 minutes.</p>
Butan-1-ol	<p>National institute of occupational safety and health (Spain, 4/2022). Absorbed through skin.</p> <p>STEL: 50 ppm 15 minutes. STEL: 154 mg/m³ 15 minutes. TWA: 20 ppm 8 hours. TWA: 61 mg/m³ 8 hours.</p>
acetone	<p>National institute of occupational safety and health (Spain, 4/2022).</p> <p>TWA: 500 ppm 8 hours. TWA: 1210 mg/m³ 8 hours.</p>
iso-butanol	<p>National institute of occupational safety and health (Spain, 4/2022).</p> <p>TWA: 50 ppm 8 hours. TWA: 154 mg/m³ 8 hours.</p>
1-Methoxy 2-propanol	<p>National institute of occupational safety and health (Spain, 4/2022). Absorbed through skin.</p> <p>TWA: 100 ppm 8 hours. TWA: 375 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 568 mg/m³ 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>
2-Methoxy-1-methylethyl acetate	<p>National institute of occupational safety and health (Spain, 4/2022). Absorbed through skin.</p> <p>TWA: 50 ppm 8 hours. TWA: 275 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m³ 15 minutes.</p>
1,2,4-trimethylbenzene	<p>National institute of occupational safety and health (Spain, 4/2022).</p> <p>TWA: 20 ppm 8 hours. TWA: 100 mg/m³ 8 hours.</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>
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>
Methylisobutylketone	<p>Work environment authority Regulation 2018:1 (Sweden, 9/2021).</p>

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Butan-1-ol	<p>TWA: 20 ppm 8 hours. TWA: 83 mg/m³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 200 mg/m³ 15 minutes.</p> <p>Work environment authority Regulation 2018:1 (Sweden, 9/2021). Absorbed through skin.</p>
acetone	<p>TWA: 15 ppm 8 hours. TWA: 45 mg/m³ 8 hours. STEL: 30 ppm 15 minutes. STEL: 90 mg/m³ 15 minutes.</p> <p>Work environment authority Regulation 2018:1 (Sweden, 9/2021).</p>
iso-butanol	<p>TWA: 250 ppm 8 hours. TWA: 600 mg/m³ 8 hours. STEL: 500 ppm 15 minutes. STEL: 1200 mg/m³ 15 minutes.</p> <p>Work environment authority Regulation 2018:1 (Sweden, 9/2021). Absorbed through skin.</p>
1-Methoxy 2-propanol	<p>TWA: 50 ppm 8 hours. TWA: 150 mg/m³ 8 hours. STEL: 75 ppm 15 minutes. STEL: 250 mg/m³ 15 minutes.</p> <p>Work environment authority Regulation 2018:1 (Sweden, 9/2021). Absorbed through skin.</p>
Xylene	<p>STEL: 150 ppm 15 minutes. STEL: 568 mg/m³ 15 minutes. TWA: 190 mg/m³ 8 hours. TWA: 50 ppm 8 hours.</p> <p>Work environment authority Regulation 2018:1 (Sweden, 9/2021). [xylene] Absorbed through skin.</p>
2-Methoxy-1-methylethyl acetate	<p>TWA: 50 ppm 8 hours. TWA: 221 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m³ 15 minutes.</p> <p>Work environment authority Regulation 2018:1 (Sweden, 9/2021). Absorbed through skin.</p>
1,2,4-trimethylbenzene	<p>TWA: 50 ppm 8 hours. TWA: 275 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m³ 15 minutes.</p> <p>Work environment authority Regulation 2018:1 (Sweden, 9/2021). [trimethyl benzene]</p>
Toluene	<p>TWA: 20 ppm 8 hours. TWA: 100 mg/m³ 8 hours. STEL: 35 ppm 15 minutes. STEL: 170 mg/m³ 15 minutes.</p> <p>Work environment authority Regulation 2018:1 (Sweden, 9/2021). Absorbed through skin. Ototoxicant.</p>
n-Butyl acetate	<p>TWA: 50 ppm 8 hours. TWA: 192 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 384 mg/m³ 15 minutes.</p> <p>SUVA (Switzerland, 1/2023).</p>
Methylisobutylketone	<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). Absorbed through skin.</p>
Butan-1-ol	<p>TWA: 20 ppm 8 hours. TWA: 82 mg/m³ 8 hours. STEL: 40 ppm 15 minutes. STEL: 164 mg/m³ 15 minutes.</p> <p>SUVA (Switzerland, 1/2023).</p>
	<p>TWA: 100 ppm 8 hours. TWA: 310 mg/m³ 8 hours.</p>

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acetone	<p>STEL: 100 ppm 15 minutes. STEL: 310 mg/m³ 15 minutes. SUVA (Switzerland, 1/2023). TWA: 500 ppm 8 hours. TWA: 1200 mg/m³ 8 hours. STEL: 1000 ppm 15 minutes. STEL: 2400 mg/m³ 15 minutes.</p>
iso-butanol	<p>SUVA (Switzerland, 1/2023). TWA: 50 ppm 8 hours. TWA: 150 mg/m³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 150 mg/m³ 15 minutes.</p>
1-Methoxy 2-propanol	<p>SUVA (Switzerland, 1/2023). TWA: 100 ppm 8 hours. TWA: 360 mg/m³ 8 hours. STEL: 200 ppm 15 minutes. STEL: 720 mg/m³ 15 minutes.</p>
Xylene	<p>SUVA (Switzerland, 1/2023). [Xylenes (all isomers)] Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 220 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 440 mg/m³ 15 minutes.</p>
2-Methoxy-1-methylethyl acetate	<p>SUVA (Switzerland, 1/2023). TWA: 50 ppm 8 hours. TWA: 275 mg/m³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 275 mg/m³ 15 minutes.</p>
1,2,4-trimethylbenzene	<p>SUVA (Switzerland, 1/2023). [Trimethylbenzenes (all isomers)] TWA: 20 ppm 8 hours. TWA: 100 mg/m³ 8 hours. STEL: 40 ppm 15 minutes. STEL: 200 mg/m³ 15 minutes.</p>
Toluene	<p>SUVA (Switzerland, 1/2023). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 190 mg/m³ 8 hours. STEL: 200 ppm 15 minutes. STEL: 760 mg/m³ 15 minutes.</p>
n-Butyl acetate	<p>EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 966 mg/m³ 15 minutes. STEL: 200 ppm 15 minutes. TWA: 724 mg/m³ 8 hours. TWA: 150 ppm 8 hours.</p>
Methylisobutylketone	<p>EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 416 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 208 mg/m³ 8 hours. TWA: 50 ppm 8 hours.</p>
Butan-1-ol	<p>EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 154 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes.</p>
acetone	<p>EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 3620 mg/m³ 15 minutes. STEL: 1500 ppm 15 minutes. TWA: 500 ppm 8 hours. TWA: 1210 mg/m³ 8 hours.</p>
iso-butanol	<p>EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 231 mg/m³ 15 minutes. STEL: 75 ppm 15 minutes. TWA: 154 mg/m³ 8 hours. TWA: 50 ppm 8 hours.</p>
1-Methoxy 2-propanol	<p>EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed</p>

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Xylene	<p>through skin. STEL: 560 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 375 mg/m³ 8 hours. TWA: 100 ppm 8 hours. EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-, p- or mixed isomers] Absorbed through skin. STEL: 441 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 220 mg/m³ 8 hours. STEL: 100 ppm 15 minutes.</p>
2-Methoxy-1-methylethyl acetate	<p>EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 548 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 274 mg/m³ 8 hours. STEL: 100 ppm 15 minutes.</p>
1,2,4-trimethylbenzene	<p>EH40/2005 WELs (United Kingdom (UK), 1/2020). [trimethylbenzenes, all isomers or mixtures] TWA: 25 ppm 8 hours. TWA: 125 mg/m³ 8 hours.</p>
Toluene	<p>EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 384 mg/m³ 15 minutes. TWA: 191 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes.</p>
1,3,5-Trimethylbenzene	<p>EH40/2005 WELs (United Kingdom (UK), 1/2020). [trimethylbenzenes, all isomers or mixtures] TWA: 25 ppm 8 hours. TWA: 125 mg/m³ 8 hours.</p>
Formaldehyde	<p>EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 2.5 mg/m³ 15 minutes. STEL: 2 ppm 15 minutes. TWA: 2 ppm 8 hours. TWA: 2.5 mg/m³ 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, methylhippuricacid [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>

SECTION 8: Exposure controls/personal protection

<p>No exposure indices known.</p> <p>acetone</p> <p>Toluene</p> <p>Methylisobutylketone</p> <p>acetone</p> <p>Xylene</p> <p>1,2,4-trimethylbenzene</p> <p>Toluene</p>	<p>Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021) BLV: 80 mg/l, acetone [in urine]. Sampling time: after the end of the exposure or the end of the work shift.</p> <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> <p>Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018) BEI: 3.5 mg/l, 4-methylpentan-2-one [in urine]. Sampling time: not critical. BEI: 35 nmol/l, 4-methylpentan-2-one [in urine]. Sampling time: not critical.</p> <p>Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018) BEI: 20 mg/g creatinine, acetone [in urine]. Sampling time: at the end of the work shift. BEI: 39 mmol/mol creatinine, acetone [in urine]. Sampling time: at the end of the work shift. BEI: 20 mg/l, acetone [in blood]. Sampling time: at the end of the work shift. BEI: 0.34 mmol/l, acetone [in blood]. Sampling time: at the end of the work shift.</p> <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> <p>Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018) [trimethylbenzene (all isomers including mesitylene)] BEI: 400 mg/g creatinine, dimethylbenzoic acid [in urine]. Sampling time: at the end of the work shift (in case of chronic exposure in the middle of the working week).</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>
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SECTION 8: Exposure controls/personal protection

No exposure indices known.

Xylene

Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015) [Xylene]
 Biological limit values: 820 µmol/mmol creatinine, methylhippuric acid [in urine]. Sampling time: end of the shift.
 Biological limit values: 1400 mg/g creatinine, methylhippuric acid [in urine]. Sampling time: end of the shift.

Toluene

Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015)
 Biological limit values: 1000 µmol/mmol creatinine, hippuric acid [in urine]. Sampling time: end of the shift.
 Biological limit values: 1600 mg/g, hippuric acid [in urine]. Sampling time: end of the shift.
 Biological limit values: 1.6 µmol/mmol creatinine, o-kresol (after hydrolysis) [in urine]. Sampling time: end of the shift.
 Biological limit values: 1.5 mg/g creatinine, o-kresol (after hydrolysis) [in urine]. Sampling time: end of the shift.

No exposure indices known.

No exposure indices known.

No exposure indices known.

Xylene

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.

Toluene

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.

No exposure indices known.

Methylisobutylketone

DFG BEI-values list (Germany, 7/2022) Notes: danger from percutaneous absorption (see p. 211 and p. 228).
 BEI: 0.7 mg/l, hexone [in urine]. Sampling time: end of exposure or end of shift.
TRGS 903 - BEI Values (Germany, 2/2022)
 BEI: 0.7 mg/l, 4-methylpentan-2-one [in urine]. Sampling time: end of exposure or end of shift.

Butan-1-ol

DFG BEI-values list (Germany, 7/2022)
 BEI: 2 mg/g creatinine, 1-butanol [in urine]. Sampling time: at the beginning of the next shift.
 BEI: 10 mg/g creatinine, 1-butanol [in urine]. Sampling time: end of exposure or end of shift.
TRGS 903 - BEI Values (Germany, 2/2022)
 BEI: 2 mg/g creatinine, butan-1-ol (butanol-1) (after hydrolysis) [in urine]. Sampling time: at the beginning of the next shift.
 BEI: 10 mg/g creatinine, butan-1-ol (butanol-1) (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift.

acetone

DFG BEI-values list (Germany, 7/2022)
 BEI: 50 mg/l, acetone [in urine]. Sampling time: end of exposure or end of shift.
TRGS 903 - BEI Values (Germany, 2/2022)
 BEI: 80 mg/l, acetone [in urine]. Sampling time: end of exposure or end of shift.

1-Methoxy 2-propanol

DFG BEI-values list (Germany, 7/2022)
 BEI: 15 mg/l, propylene glycol 1-methyl ether [in urine]. Sampling time: end of exposure or end of shift.

SECTION 8: Exposure controls/personal protection

<p>Xylene</p>	<p>TRGS 903 - BEI Values (Germany, 2/2022) BEI: 15 mg/l, 1-methoxypropan-2-ol [in urine]. Sampling time: end of exposure or end of shift.</p> <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.</p> <p>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>
<p>1,2,4-trimethylbenzene</p>	<p>DFG BEI-values list (Germany, 7/2022) [Trimethylbenzene (all isomers)] BEI: 400 mg/g creatinine, dimethyl benzoic acids (sum of isomers 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.</p> <p>TRGS 903 - BEI Values (Germany, 2/2022) [Trimethylbenzene] BEI: 400 mg/g creatinine, dimethylbenzoic acids (sum of isomers 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.</p>
<p>Toluene</p>	<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.</p> <p>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>
<p>No exposure indices known.</p>	
<p>Methylisobutylketone</p>	<p>5/2020. (II. 6.) ITM Decree (Hungary, 12/2022) BEI: 35 µmol/l, methyl-iso-butyl-ketone [in urine]. Sampling time: at the end of the shift. BEI: 3.5 mg/l, methyl-iso-butyl-ketone [in urine]. Sampling time: at the end of the shift.</p>
<p>Butan-1-ol</p>	<p>5/2020. (II. 6.) ITM Decree (Hungary, 12/2022) BEI: 15 µmol/mmol creatinine, n-butyl-alcohol (after hydrolysis) [in urine]. Sampling time: at the end of the shift. BEI: 10 mg/g creatinine, n-butyl-alcohol (after hydrolysis) [in urine]. Sampling time: at the end of the shift. BEI: 3 µmol/mmol creatinine, n-butyl-alcohol (after hydrolysis) [in urine]. Sampling time: before the next shift. BEI: 2 mg/g creatinine, n-butyl-alcohol (after hydrolysis) [in urine]. Sampling time: before the next shift.</p>
<p>acetone</p>	<p>5/2020. (II. 6.) ITM Decree (Hungary, 12/2022) BEI: 1380 µmol/l, acetone [in urine]. Sampling time: at the end of the shift. BEI: 80 mg/l, acetone [in urine]. Sampling time: at the end of the</p>

SECTION 8: Exposure controls/personal protection

	shift.
Xylene	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.
Toluene	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.
No exposure indices known.	
Methylisobutylketone	NAOSH (Ireland, 1/2011) BMGV: 1 mg/l, MIBK [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.
acetone	NAOSH (Ireland, 1/2011) BMGV: 50 mg/l, acetone [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.
Xylene	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.
Toluene	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.
No exposure indices known.	
Toluene	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.
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
Methylisobutylketone	Portuguese Institute of Quality (Portugal, 11/2014) BEI: 1 mg/l, methylisobutylketone (MIBK) [in urine]. Sampling time: end of shift.
acetone	Portuguese Institute of Quality (Portugal, 11/2014) BEI: 50 mg/l, acetone [in urine]. Sampling time: end of shift.
Xylene	Portuguese Institute of Quality (Portugal, 11/2014) [Xylenes] BEI: 1.5 g/g creatinine, (o, m, p) -methyl-boronic acids [in urine]. Sampling time: end of shift.
Toluene	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.

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acetone	<p>BEI: 0.02 mg/l, toluene [in blood]. Sampling time: end of shift at the end of the workweek.</p> <p>HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2020) OBLV: 50 mg/l, acetone [in urine]. Sampling time: end of shift.</p>
Xylene	<p>HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2020) [Xylene] OBLV: 3 g/l, methylhippuric acid [in urine]. Sampling time: end of shift.</p>
Toluene	<p>HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2020) OBLV: 3 mg/l, o-cresol [in urine]. Sampling time: end of shift. OBLV: 2 g/l, hippuric acid [in urine]. Sampling time: end of shift.</p>
Methylisobutylketone	<p>Government regulation SR c. 355/2006 (Slovakia, 9/2020) BLV: 2.67 µmol/mmol creatinine, hexon [in urine]. Sampling time: at the end of exposure or work shift. BLV: 2.36 mg/g creatinine, hexon [in urine]. Sampling time: at the end of exposure or work shift. BLV: 35.4 µmol/l, hexon [in urine]. Sampling time: at the end of exposure or work shift. BLV: 3.5 mg/l, hexon [in urine]. Sampling time: at the end of exposure or work shift.</p>
Butan-1-ol	<p>Government regulation SR c. 355/2006 (Slovakia, 9/2020) BLV: 15.34 µmol/mmol creatinine, n-butyl alcohol [in urine]. Sampling time: at the end of exposure or work shift. BLV: 10 mg/g creatinine, n-butyl alcohol [in urine]. Sampling time: at the end of exposure or work shift. BLV: 3.13 µmol/mmol creatinine, n-butyl alcohol [in urine]. Sampling time: before the next work shift. BLV: 2 mg/g creatinine, n-butyl alcohol [in urine]. Sampling time: before the next work shift.</p>
acetone	<p>Government regulation SR c. 355/2006 (Slovakia, 9/2020) BLV: 103.9 µmol/mmol creatinine, acetone [in urine]. Sampling time: at the end of exposure or work shift. BLV: 53.36 mg/g creatinine, acetone [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1378 µmol/l, acetone [in urine]. Sampling time: at the end of exposure or work shift. BLV: 80 mg/l, acetone [in urine]. Sampling time: at the end of exposure or work shift.</p>
Xylene	<p>Government regulation SR c. 355/2006 (Slovakia, 9/2020) [xylene, all isomers] BLV: 781 µmol/mmol creatinine, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1334 mg/g creatinine, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 10355 µmol/l, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 14.6 µmol/l, xylene [in blood]. Sampling time: at the end of exposure or work shift. BLV: 2000 mg/l, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1.5 mg/l, xylene [in blood]. Sampling time: at the end of exposure or work shift.</p>
Toluene	<p>Government regulation SR c. 355/2006 (Slovakia, 9/2020) BLV: 1010 µmol/mmol creatinine, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift.</p>

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	<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>
Methylisobutylketone	<p>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021)</p> <p>BAT: 0.7 mg/l, 4-methylpentan-2-one [in urine]. Sampling time: at the end of the work shift.</p>
Butan-1-ol	<p>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021)</p> <p>BAT: 10 mg/g creatinine, 1-butanol (after hydrolysis) [in urine]. Sampling time: at the end of the work shift.</p> <p>BAT: 2 mg/g creatinine, 1-butanol (after hydrolysis) [in urine]. Sampling time: before the work shift.</p>
acetone	<p>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021)</p> <p>BAT: 80 mg/l, acetone [in urine]. Sampling time: at the end of the work shift.</p>
1-Methoxy 2-propanol	<p>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021)</p> <p>BAT: 15 mg/l, 1-methoxypropan-2-ol [in urine]. Sampling time: at the end of the work shift.</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>
1,2,4-trimethylbenzene	<p>Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) [trimethylbenzene (all isomers)]</p> <p>BAT: 400 mg/g creatinine, dimethylbenzoic acid (all isomers 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>
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</p>

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	<p>after exposure. BAT: 75 µg/l, toluene [in urine]. Sampling time: at the end of the work shift.</p>
Methylisobutylketone	<p>National institute of occupational safety and health (Spain, 4/2022) VLB: 1 mg/l, methyl isobutyl ketone [in urine]. Sampling time: end of shift.</p>
acetone	<p>National institute of occupational safety and health (Spain, 4/2022) VLB: 50 mg/l, acetone [in urine]. Sampling time: end of shift.</p>
Xylene	<p>National institute of occupational safety and health (Spain, 4/2022) [Xylenes] VLB: 1 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift.</p>
Toluene	<p>National institute of occupational safety and health (Spain, 4/2022) VLB: 0.05 mg/l, toluene [in blood]. Sampling time: prior to last shift of workweek. VLB: 0.6 mg/g creatinine, o-cresol [in urine]. Sampling time: end of shift. VLB: 0.08 mg/l, toluene [in urine]. Sampling time: end of shift.</p>
No exposure indices known.	
Methylisobutylketone	<p>SUVA (Switzerland, 1/2023) BEI: 0.7 mg/l, 4-methylpentan-2-one [in urine]. Sampling time: immediately after exposure or after working hours.</p>
Butan-1-ol	<p>SUVA (Switzerland, 1/2023) BEI: 2 mg/g creatinine, n-butanol [in urine]. Sampling time: before the next shift or 4pm.</p>
acetone	<p>SUVA (Switzerland, 1/2023) BEI: 50 mg/l, acetone [in urine]. Sampling time: immediately after exposure or after working hours. BEI: 0.86 mmol/l, acetone [in urine]. Sampling time: immediately after exposure or after working hours.</p>
1-Methoxy 2-propanol	<p>SUVA (Switzerland, 1/2023) BEI: 20 mg/l, 1-methoxypropanol-2 [in urine]. Sampling time: immediately after exposure or after working hours. BEI: 221.9 µmol/l, 1-methoxypropanol-2 [in urine]. Sampling time: immediately after exposure or after working hours.</p>
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</p>

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Methylisobutylketone	<p>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> <p>EH40/2005 BMGVs (United Kingdom (UK), 8/2018) BGV: 20 µmol/l, 4-methylpentan-2-one [in urine]. Sampling time: post shift.</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
	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
	Methylisobutylketone	DNEL	Long term Oral	4.2 mg/kg bw/day	General population
DNEL		Long term Dermal	4.2 mg/kg bw/day	General population	Systemic
DNEL		Long term Dermal	11.8 mg/kg bw/day	Workers	Systemic
DNEL		Long term Inhalation	14.7 mg/m ³	General population	Local
DNEL		Long term Inhalation	14.7 mg/m ³	General	Systemic

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Butan-1-ol	DNEL	Inhalation Long term	83 mg/m ³	population Workers	Local	
	DNEL	Inhalation Long term	83 mg/m ³	Workers	Systemic	
	DNEL	Inhalation Short term	155.2 mg/ m ³	General population	Local	
	DNEL	Inhalation Short term	155.2 mg/ m ³	General population	Systemic	
	DNEL	Inhalation Short term	208 mg/m ³	Workers	Local	
	DNEL	Inhalation Short term	208 mg/m ³	Workers	Systemic	
	DNEL	Long term Oral	1.5625 mg/ kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	3.125 mg/ kg bw/day	General population	Systemic	
	DNEL	Long term Inhalation	55.357 mg/ m ³	General population	Systemic	
	DNEL	Long term Inhalation	155 mg/m ³	General population	Local	
acetone	DNEL	Long term Inhalation	310 mg/m ³	Workers	Local	
	DNEL	Long term Oral	62 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	62 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	186 mg/kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	200 mg/m ³	General population	Systemic	
	DNEL	Long term Inhalation	1210 mg/ m ³	Workers	Systemic	
	DNEL	Short term Inhalation	2420 mg/ m ³	Workers	Local	
	DNEL	Long term Inhalation	55 mg/m ³	General population	Local	
	DNEL	Long term Inhalation	310 mg/m ³	Workers	Local	
	1-Methoxy 2-propanol	DNEL	Long term Oral	33 mg/kg bw/day	General population	Systemic
DNEL		Long term Inhalation	43.9 mg/m ³	General population	Systemic	
DNEL		Long term Dermal	78 mg/kg bw/day	General population	Systemic	
DNEL		Long term Dermal	183 mg/kg bw/day	Workers	Systemic	
DNEL		Long term Inhalation	369 mg/m ³	Workers	Systemic	
DNEL		Short term Inhalation	553.5 mg/ m ³	Workers	Local	
DNEL		Short term Inhalation	553.5 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	General	Systemic	

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Solvent naphtha (petroleum), light arom.	DNEL	Long term Dermal	bw/day 212 mg/kg	population Workers	Systemic	
	DNEL	Long term Inhalation	bw/day 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	
	DNEL	Long term Inhalation	0.41 mg/m ³	General population	Systemic	
	DNEL	Long term Inhalation	1.9 mg/m ³	Workers	Systemic	
	DNEL	Long term Inhalation	178.57 mg/m ³	General population	Local	
	DNEL	Short term Inhalation	640 mg/m ³	General population	Local	
	DNEL	Long term Inhalation	837.5 mg/m ³	Workers	Local	
	DNEL	Short term Inhalation	1066.67 mg/m ³	Workers	Local	
	DNEL	Short term Inhalation	1152 mg/m ³	General population	Systemic	
	DNEL	Short term Inhalation	1286.4 mg/m ³	Workers	Systemic	
	2-Methoxy-1-methylethyl acetate	DNEL	Long term Inhalation	33 mg/m ³	General population	Local
		DNEL	Long term Inhalation	33 mg/m ³	General population	Systemic
DNEL		Long term Oral	36 mg/kg bw/day	General population	Systemic	
DNEL		Long term Inhalation	275 mg/m ³	Workers	Systemic	
DNEL		Long term Dermal	320 mg/kg bw/day	General population	Systemic	
DNEL		Short term Inhalation	550 mg/m ³	Workers	Local	
1,2,4-trimethylbenzene	DNEL	Long term Dermal	796 mg/kg bw/day	Workers	Systemic	
	DNEL	Long term Oral	15 mg/kg bw/day	General population	Systemic	
	DNEL	Short term Inhalation	29.4 mg/m ³	General population	Local	
	DNEL	Long term Inhalation	29.4 mg/m ³	General population	Local	
	DNEL	Short term Inhalation	29.4 mg/m ³	General population	Systemic	
	DNEL	Long term Inhalation	29.4 mg/m ³	General population	Systemic	
	DNEL	Short term Inhalation	100 mg/m ³	Workers	Local	
	DNEL	Long term Inhalation	100 mg/m ³	Workers	Local	
	DNEL	Short term Inhalation	100 mg/m ³	Workers	Systemic	
	DNEL	Long term Inhalation	100 mg/m ³	Workers	Systemic	
	DNEL	Long term Dermal	9512 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	16171 mg/kg bw/day	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	56.5 mg/m ³	General population	Systemic	

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	DNEL	Inhalation Long term	192 mg/m ³	population Workers	Local
	DNEL	Inhalation Long term	192 mg/m ³	Workers	Systemic
	DNEL	Inhalation Long term	226 mg/kg bw/day	General population	Systemic
	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

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls

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

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. 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 and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

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.

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

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Appearance

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

Ingredient name	°C	°F	Method
acetone	56.05	132.9	
iso-butanol	108	226.4	OECD 103

- Flammability** : Not available.
Lower and upper explosion limit : Lower: 0.8% (xylene)
Upper: 13% (acetone)
Flash point : Closed cup: -19°C (-2.2°F)
Auto-ignition temperature :

Ingredient name	°C	°F	Method
1-Methoxy 2-propanol	270	518	
Solvent naphtha (petroleum), light arom.	280 to 470	536 to 878	

- Decomposition temperature** : Not available.
pH : Not available.
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
acetone	180.01463	24				
Toluene	23.17	3.1				

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

SECTION 9: Physical and chemical properties

Explosive properties	: Not available.
Oxidising properties	: Not available.
Particle characteristics	
Median particle size	: Not applicable.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

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

10.2 Chemical stability : The product is stable.

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

10.4 Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

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

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

SECTION 11: Toxicological information

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

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure	
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	-	
Methylisobutylketone	LD50 Oral	Rat	2080 mg/kg	-	
	Butan-1-ol	LC50 Inhalation Vapour	Rat	24000 mg/m ³	4 hours
		LD50 Dermal	Rabbit	3400 mg/kg	-
LD50 Oral		Rat	790 mg/kg	-	
acetone	LD50 Oral	Rat	5800 mg/kg	-	
iso-butanol	LC50 Inhalation Vapour	Rat	19200 mg/m ³	4 hours	
	LD50 Dermal	Rabbit	3400 mg/kg	-	
	LD50 Oral	Rat	2460 mg/kg	-	
1-Methoxy 2-propanol	LD50 Dermal	Rabbit	13 g/kg	-	
	LD50 Oral	Rat	6600 mg/kg	-	
	Xylene	LC50 Inhalation Vapour	Rat	21.7 mg/l	4 hours
LD50 Oral		Rat	4300 mg/kg	-	
LD50 Oral		Rat	8400 mg/kg	-	
Solvent naphtha (petroleum), light arom.	2-Methoxy-1-methylethyl acetate	LD50 Dermal	Rabbit	>5 g/kg	-
		LD50 Oral	Rat	8532 mg/kg	-
1,2,4-trimethylbenzene	LC50 Inhalation Vapour	Rat	18000 mg/m ³	4 hours	
	LD50 Oral	Rat	5 g/kg	-	
	Toluene	LC50 Inhalation Vapour	Rat	49 g/m ³	4 hours
LD50 Oral		Rat	636 mg/kg	-	

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

Acute toxicity estimates

SECTION 11: Toxicological information

Route	ATE value
Oral	8276.36 mg/kg
Dermal	36742.43 mg/kg
Inhalation (vapours)	49.43 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	-
Methylisobutylketone	Eyes - Moderate irritant	Rabbit	-	24 hours 100 uL	-
	Eyes - Severe irritant	Rabbit	-	40 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Butan-1-ol	Eyes - Severe irritant	Rabbit	-	0.005 MI	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-
acetone	Eyes - Mild irritant	Human	-	186300 ppm	-
	Eyes - Mild irritant	Rabbit	-	10 uL	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Eyes - Severe irritant	Rabbit	-	20 mg	-
	Skin - Mild irritant	Rabbit	-	395 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
1-Methoxy 2-propanol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
Xylene	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5 mg	-
	Skin - Mild irritant	Rat	-	8 hours 60 uL	-
	Skin - Moderate irritant	Rabbit	-	100 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
	Solvent naphtha (petroleum), light arom.	Eyes - Mild irritant	Rabbit	-	24 hours 100 uL
Toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes 100 mg	-
	Eyes - Mild irritant	Rabbit	-	870 ug	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2 mg	-
	Skin - Mild irritant	Pig	-	24 hours 250 uL	-
	Skin - Mild irritant	Rabbit	-	435 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Skin - Moderate irritant	Rabbit	-	500 mg	-

Conclusion/Summary : Causes skin irritation.

Sensitisation

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

Mutagenicity

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

Carcinogenicity

Conclusion/Summary : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

Reproductive toxicity

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

SECTION 11: Toxicological information

Teratogenicity

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

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
n-Butyl acetate	Category 3	-	Narcotic effects
Methylisobutylketone	Category 3	-	Narcotic effects
Butan-1-ol	Category 3	-	Respiratory tract irritation
acetone	Category 3	-	Narcotic effects
iso-butanol	Category 3	-	Narcotic effects Respiratory tract irritation
1-Methoxy 2-propanol	Category 3	-	Narcotic effects
Xylene	Category 3	-	Narcotic effects Respiratory tract irritation
Solvent naphtha (petroleum), light arom.	Category 3	-	Respiratory tract irritation
2-Methoxy-1-methylethyl acetate	Category 3	-	Narcotic effects
1,2,4-trimethylbenzene	Category 3	-	Respiratory tract irritation
Toluene	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

Product/ingredient name	Result
Xylene	ASPIRATION HAZARD - Category 1
Solvent naphtha (petroleum), light arom.	ASPIRATION HAZARD - Category 1
Toluene	ASPIRATION HAZARD - Category 1

Information on likely routes of exposure : Not available.

Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
- Skin contact** : Causes skin irritation.
- 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
watering
redness
- Inhalation** : Adverse symptoms may include the following:
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness

SECTION 11: Toxicological information

- Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
- Ingestion** : Adverse symptoms may include the following:
stomach pains

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** : No known significant effects or critical hazards.
- Carcinogenicity** : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
- Mutagenicity** : No known significant effects or critical hazards.
- Reproductive toxicity** : No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
n-Butyl acetate	Acute LC50 32 mg/l Marine water	Crustaceans - <i>Artemia salina</i>	48 hours
Methylisobutylketone	Acute LC50 18000 µg/l Fresh water	Fish - <i>Pimephales promelas</i>	96 hours
	Acute LC50 505000 µg/l Fresh water	Fish - <i>Pimephales promelas</i>	96 hours
	Chronic NOEC 78 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days
	Chronic NOEC 168 mg/l Fresh water	Fish - <i>Pimephales promelas</i> - Embryo	33 days
Butan-1-ol	Acute EC50 1983000 µg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 1730000 µg/l Fresh water	Fish - <i>Pimephales promelas</i>	96 hours
acetone	Acute EC50 20.565 mg/l Marine water	Algae - <i>Ulva pertusa</i>	96 hours
	Acute LC50 6000000 µg/l Fresh water	Crustaceans - <i>Gammarus pulex</i>	48 hours
	Acute LC50 10000 µg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 5600 ppm Fresh water	Fish - <i>Poecilia reticulata</i>	96 hours
	Chronic NOEC 4.95 mg/l Marine water	Algae - <i>Ulva pertusa</i>	96 hours
	Chronic NOEC 0.016 ml/L Fresh water	Crustaceans - <i>Daphniidae</i>	21 days
	Chronic NOEC 0.1 ml/L Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	21 days
	Chronic NOEC 5 µg/l Marine water	Fish - <i>Gasterosteus aculeatus</i> - Larvae	42 days
iso-butanol	Acute LC50 600 mg/l Marine water	Crustaceans - <i>Artemia salina</i>	48 hours
	Acute LC50 1030000 µg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 1330000 µg/l Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours

Date of issue/Date of revision : 26/09/2024 Date of previous issue : No previous validation Version : 1 50/58

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SECTION 12: Ecological information

1,2,4-trimethylbenzene	Acute LC50 4910 µg/l Marine water	Crustaceans - <i>Elasmopus pecteniscrus</i> - Adult	48 hours
Toluene	Acute LC50 7720 µg/l Fresh water	Fish - <i>Pimephales promelas</i>	96 hours
	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
	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

Conclusion/Summary : Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
iso-butanol	-	74 % - Readily - 28 days	-	-

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
iso-butanol	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
n-Butyl acetate	2.3	-	Low
Methylisobutylketone	1.9	-	Low
Butan-1-ol	1	-	Low
acetone	-0.23	-	Low
iso-butanol	1	-	Low
1-Methoxy 2-propanol	<1	-	Low
Xylene	3.12	8.1 to 25.9	Low
Solvent naphtha (petroleum), light arom.	-	10 to 2500	High
2-Methoxy-1-methylethyl acetate	1.2	-	Low
1,2,4-trimethylbenzene	3.63	243	Low
Toluene	2.73	90	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, 4-methylpentan-2-one)	FLAMMABLE LIQUID, N.O.S. (n-butyl acetate, 4-methylpentan-2-one)	FLAMMABLE LIQUID, N.O.S. (2-methylpropan-1-ol, 1-methoxy-2-propanol)	FLAMMABLE LIQUID, N.O.S. (2-methylpropan-1-ol, 1-methoxy-2-propanol)
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)

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

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.

SECTION 14: Transport information

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

SECTION 15: Regulatory information

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

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

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

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

Product/ingredient name	%	Designation [Usage]
AC EMAILLACK FM 3021-80	≥90	3
Toluene	<3	48

Labelling :

Other EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : Listed

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

SECTION 15: Regulatory information

Ingredient name	Annex I Section A	Annex I Section B
4-methylpentan-2-one	-	Carc. 2, H351

MAL-code : 4-1

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: 4-1

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

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

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

- Air-supplied full mask and arm protectors 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. 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 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.

SECTION 15: Regulatory information

List of undesirable substances : Listed

Finland

France

Social Security Code, Articles L 461-1 to L 461-7 :

n-Butyl acetate	RG 84
Methylisobutylketone	RG 84
Butan-1-ol	RG 84
acetone	RG 84
iso-butanol	RG 84
1-Methoxy 2-propanol	RG 84
Xylene	RG 4bis, RG 84
Solvent naphtha (petroleum), light arom.	RG 84
2-Methoxy-1-methylethyl acetate	RG 84
1,2,4-trimethylbenzene	RG 84
Toluene	RG 4bis, RG 84

Reinforced medical surveillance : Act of July 11, 1977 determining the list of activities which require reinforced medical surveillance: not applicable

Germany

Storage class (TRGS 510) : 3

Hazardous incident ordinance

This product is controlled under the Germany Hazardous Incident Ordinance.

Danger criteria

Category	Reference number
P5c	1.2.5.3

Hazard class for water : 3

Technical instruction on air quality control : TA-Luft Number 5.2.5: 98.4%
TA-Luft Class I - Number 5.2.5: 1.5%

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 Solvent naphtha (petroleum), light arom.	- Listed	- Listed	- -	Development 2 -	- -
tolueen Solvent naphtha (petroleum), light arom.	- Listed	- Listed	- -	Development 2 -	- -

Water Discharge Policy (ABM) : Z(1) Non biodegradable substances with hazardous properties for humans and the environment (carcinogenicity/ mutagenicity/ reprotoxicity/ bioacumulative potential/ toxicity or persistence). Decontamination effort: Z

Norway

Sweden

Flammable liquid class (SRVFS 2005:10) : 1

Switzerland

VOC content : VOC (w/w): 59.5%

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

SECTION 15: Regulatory information

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

[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 Dam. 1, H318	Calculation method
Carc. 2, H351	Calculation method
STOT SE 3, H336	Calculation method
Aquatic Chronic 3, H412	Calculation method

[Full text of abbreviated H statements](#)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

[Full text of classifications \[CLP/GHS\]](#)

SECTION 16: Other information

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Carc. 2	CARCINOGENICITY - Category 2
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
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 : 26/09/2024

Date of previous issue : No previous validation

Version : 1

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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.

