SAFETY DATA SHEET



AC EMAILLACK FM 3021-15 - All variants

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

1.1 Product identifier

: AC EMAILLACK FM 3021-15 - All variants **Product name**

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

Product use : Paint.

1.3 Details of the supplier of the safety data sheet

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

e-mail address of person

: Prod-safe@teknos.com

responsible for this SDS

National contact

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

1.4 Emergency telephone number

National advisory body/Poison Centre

: In an emergency, call 112 Telephone number

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 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 1B, H350 **STOT SE 3, H336**

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

Ingredients of unknown toxicity

: 27.6 percent of the mixture consists of component(s) of unknown acute oral toxicity 27.6 percent of the mixture consists of component(s) of unknown acute dermal

27.6 percent of the mixture consists of component(s) of unknown acute inhalation

toxicity

Ingredients of unknown ecotoxicity

: Contains 27.6% 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

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SECTION 2: Hazards identification

Hazard statements

: H225 - Highly flammable liquid and vapour.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

H336 - May cause drowsiness or dizziness.

H350 - May cause cancer.

Precautionary statements

Prevention

: P201 - Obtain special instructions before use.

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

: P308 + P313 - IF exposed or concerned: Get medical advice or attention.

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

Supplemental label

elements

: Contains: n-Butyl acetate; Methylisobutylketone; iso-butanol and Formaldehyde

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

articles

: Restricted to professional users.

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 | Туре |
|-------------------------|---|-----------|--|---|---------|
| r-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/ I | [1] [2] |
| 1-Methoxy 2-propanol | REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3 | ≤10 | Flam. Liq. 3, H226 STOT SE 3, H336 | - | [1] [2] |
| iso-butanol | REACH #: 01-2119484609-23 EC: 201-148-0 | ≤7.1 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 | - | [1] |

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| SECTION 3: Composition/information on ingredients | | | | | |
|---|---|------|---|---|---------|
| | CAS: 78-83-1 Index: 603-108-00-1 | | STOT SE 3, H335 STOT SE 3, H336 | | |
| 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] |
| Butan-1-ol | REACH #: 01-2119484630-38 EC: 200-751-6 CAS: 71-36-3 Index: 603-004-00-6 | ≤2.8 | 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] |
| 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] |
| Toluene | REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3 | <1 | Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 | - | [1] [2] |
| Formaldehyde | REACH #: 01-2119488953-20 EC: 200-001-8 CAS: 50-00-0 Index: 605-001-00-5 | ≤0.3 | Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350 STOT SE 3, H335 | ATE [Oral] = 100 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (gases)] = 700 ppm Skin Corr. 1B, H314: $C \ge 25\%$ Skin Irrit. 2, H315: $5\% \le C < 25\%$ Eye Dam. 1, H318: $C \ge 25\%$ Eye Irrit. 2, H319: $5\% \le C < 25\%$ Skin Sens. 1, H317: $C \ge 0.2\%$ STOT SE 3, H335: $C \ge 5\%$ | [1] [2] |
| | | | the full text of the H statements declared above. | | |

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

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

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SECTION 4: First aid measures

4.1 Description of first aid measures

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. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. 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.

Specific treatments : No specific treatment.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing

media

: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

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

Hazardous combustion products

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide

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).

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. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. 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.

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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.

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SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

Protective measures

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

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. Store locked up. 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. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

Danger criteria

| Category | Notification and MAPP threshold | Safety report threshold |
|-------------|---------------------------------|-------------------------|
| ₱ 5c | 5000 tonnes | 50000 tonnes |

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

| Product/ingredient name | Exposure limit values | | |
|-------------------------------|---|--|--|
| <mark>v</mark> -Butyl acetate | Regulation on Limit Values - MAC (Austria, 4/2021) [Butylacetat alle Isomeren außer tert-Butylacet] | | |
| | CEIL: 480 mg/m³. | | |
| | CEIL: 100 ppm. | | |
| | TWA 8 hours: 241 mg/m³. | | |
| | TWA 8 hours: 50 ppm. | | |
| Methylisobutylketone | Regulation on Limit Values - MAC (Austria, 4/2021) Absorbed | | |
| | through skin. | | |
| | TWA 8 hours: 20 ppm. | | |
| | TWA 8 hours: 83 mg/m ³ . | | |

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SECTION 8: Exposure controls/personal protection PEAK 15 minutes: 50 ppm 4 times per shift. PEAK 15 minutes: 208 mg/m³ 4 times per shift. Regulation on Limit Values - MAC (Austria, 4/2021) Absorbed 1-Methoxy 2-propanol through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 187 mg/m³. CEIL: 50 ppm. CEIL: 187 mg/m³. Regulation on Limit Values - MAC (Austria, 4/2021) [Butanol iso-butanol (alle Isomeren außer 2-Methyl-2-propanol)] PEAK 15 minutes: 200 ppm 4 times per shift. TWA 8 hours: 150 mg/m³. TWA 8 hours: 50 ppm. PEAK 15 minutes: 600 mg/m³ 4 times per shift. Regulation on Limit Values - MAC (Austria, 4/2021) acetone TWA 8 hours: 500 ppm. TWA 8 hours: 1200 mg/m³. PEAK 15 minutes: 2000 ppm 4 times per shift. PEAK 15 minutes: 4800 mg/m³ 4 times per shift. Butan-1-ol Regulation on Limit Values - MAC (Austria, 4/2021) [Butanol (alle Isomeren außer 2-Methyl-2-propanol)] PEAK 15 minutes: 200 ppm 4 times per shift. TWA 8 hours: 150 mg/m³. TWA 8 hours: 50 ppm. PEAK 15 minutes: 600 mg/m³ 4 times per shift. Regulation on Limit Values - MAC (Austria, 4/2021) Absorbed 2-Methoxy-1-methylethyl acetate through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 275 ma/m³. CEIL 5 minutes: 100 ppm 8 times per shift. CEIL 5 minutes: 550 mg/m³ 8 times per shift. Toluene Regulation on Limit Values - MAC (Austria, 4/2021) d. Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 190 mg/m³. PEAK 15 minutes: 100 ppm 4 times per shift. PEAK 15 minutes: 380 mg/m³ 4 times per shift. Formaldehyde Regulation on Limit Values - MAC (Austria, 4/2021) Carc A2. Skin sensitiser. TWA 8 hours: 0.3 ppm. TWA 8 hours: 0.37 mg/m³. CEIL: 0.6 ppm. CEIL: 0.74 mg/m³. n-Butyl acetate Limit values (Belgium, 12/2023) [butylacetaat] STEL 15 minutes: 712 mg/m³. STEL 15 minutes: 150 ppm. TWA 8 hours: 238 mg/m³. TWA 8 hours: 50 ppm. Limit values (Belgium, 12/2023) Methylisobutylketone TWA 8 hours: 20 ppm. TWA 8 hours: 83 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 208 mg/m³. 1-Methoxy 2-propanol Limit values (Belgium, 12/2023) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 184 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 369 mg/m³. iso-butanol Limit values (Belgium, 12/2023) TWA 8 hours: 50 ppm.

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acetone

TWA 8 hours: 154 mg/m³. Limit values (Belgium, 12/2023)

TWA 8 hours: 246 ppm.

TWA 8 hours: 594 mg/m³.

STEL 15 minutes: 492 ppm.

STEL 15 minutes: 1187 mg/m³.

Butan-1-ol Limit values (Belgium, 12/2023) Absorbed through skin.

TWA 8 hours: 20 ppm. TWA 8 hours: 62 mg/m³.

2-Methoxy-1-methylethyl acetate Limit values (Belgium, 12/2023) Absorbed through skin.

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

Toluene Limit values (Belgium, 12/2023) Absorbed through skin.

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

Formaldehyde Limit values (Belgium, 12/2023) C.

Limit value - M: 0.3 ppm. Limit value - M: 0.38 mg/m³.

Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024)

Limit value 8 hours: 241 mg/m³. Limit value 15 minutes: 723 mg/m³. Limit value 15 minutes: 150 ppm. Limit value 8 hours: 50 ppm.

Methylisobutylketone Ministry of Labour and Social Policy and the Ministry of

Health - Ordinance No 13/2003. (Bulgaria, 4/2024)

Limit value 8 hours: 50 mg/m³. Limit value 15 minutes: 200 mg/m³.

1-Methoxy 2-propanol Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Absorbed

through skin.

Limit value 8 hours: 375 mg/m³. Limit value 15 minutes: 568 mg/m³. Limit value 15 minutes: 150 ppm. Limit value 8 hours: 100 ppm.

acetone Ministry of Labour and Social Policy and the Ministry of

Health - Ordinance No 13/2003. (Bulgaria, 4/2024)

Limit value 8 hours: 600 mg/m³. Limit value 15 minutes: 1400 mg/m³.

Butan-1-ol Ministry of Labour and Social Policy and the Ministry of

Health - Ordinance No 13/2003. (Bulgaria, 4/2024)

Limit value 8 hours: 100 mg/m³. Limit value 15 minutes: 150 mg/m³.

2-Methoxy-1-methylethyl acetate Ministry of Labour and Social Policy and the Ministry of

Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Absorbed

through skin.

Limit value 8 hours: 275 mg/m³. Limit value 15 minutes: 550 mg/m³. Limit value 15 minutes: 100 ppm. Limit value 8 hours: 50 ppm.

Toluene Ministry of Labour and Social Policy and the Ministry of

Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Absorbed

through skin.

Limit value 15 minutes: 384 mg/m³. Limit value 8 hours: 192 mg/m³. Limit value 15 minutes: 100 ppm. Limit value 8 hours: 50 ppm.

Formaldehyde

Ministry of Labour and Social Policy and the Ministry of

Hoelth Ordinance No. 10/2003 (OEL) (Bulgaria, 4/2024) S

Health - Ordinance No 10/2003 (OEL). (Bulgaria, 4/2024) Skin

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Limit value 15 minutes: 0.74 mg/m³. Limit value 8 hours: 0.37 mg/m³.

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SECTION 8: Exposure controls/personal protection Limit value 15 minutes: 0.5 ppm. Form: For the healthcare, funeral and embalming sectors. Limit value 8 hours: 0.62 mg/m³. Form: For the healthcare, funeral and embalming sectors. Limit value 15 minutes: 0.6 ppm. Limit value 8 hours: 0.3 ppm. Ordinance on the protection of workers from exposure to n-Butyl acetate hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) STELV 15 minutes: 723 mg/m³. STELV 15 minutes: 150 ppm. ELV 8 hours: 241 mg/m³. ELV 8 hours: 50 ppm. Methylisobutylketone Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) STELV 15 minutes: 208 mg/m3. STELV 15 minutes: 50 ppm. ELV 8 hours: 83 mg/m3. ELV 8 hours: 20 ppm. Ordinance on the protection of workers from exposure to 1-Methoxy 2-propanol hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) STELV 15 minutes: 568 mg/m³. STELV 15 minutes: 150 ppm. ELV 8 hours: 375 mg/m³. ELV 8 hours: 100 ppm. iso-butanol Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) Absorbed through skin. STELV 15 minutes: 231 ma/m³. STELV 15 minutes: 75 ppm. ELV 8 hours: 154 mg/m³. ELV 8 hours: 50 ppm. Ordinance on the protection of workers from exposure to acetone hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) ELV 8 hours: 1210 mg/m3. ELV 8 hours: 500 ppm. Ordinance on the protection of workers from exposure to Butan-1-ol hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) Absorbed through skin. STELV 15 minutes: 154 mg/m³. STELV 15 minutes: 50 ppm. 2-Methoxy-1-methylethyl acetate Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) Absorbed through skin. STELV 15 minutes: 550 mg/m³. STELV 15 minutes: 100 ppm. ELV 8 hours: 275 mg/m³. ELV 8 hours: 50 ppm. Toluene Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) Absorbed through skin. STELV 15 minutes: 384 mg/m³. STELV 15 minutes: 100 ppm. ELV 8 hours: 192 mg/m³. ELV 8 hours: 50 ppm. Formaldehyde Ordinance on the protection of workers from exposure to

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hazardous chemicals at work, exposure limit values (Annex I)

(Croatia, 12/2023) Carc 1B. Skin sensitiser.

STELV 15 minutes: 0.74 mg/m³. STELV 15 minutes: 0.6 ppm.

ELV 8 hours: 0.37 mg/m³. ELV 8 hours: 0.3 ppm.

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

Methylisobutylketone Department of labour inspection (Cyprus, 7/2021)

STEL 15 minutes: 50 ppm. STEL 15 minutes: 208 mg/m³. TWA 8 hours: 20 ppm. TWA 8 hours: 83 mg/m³.

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

through skin.

STEL 15 minutes: 150 ppm. STEL 15 minutes: 568 mg/m³. TWA 8 hours: 100 ppm. TWA 8 hours: 375 mg/m³.

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

through skin.

TWA 8 hours: 500 ppm. TWA 8 hours: 1210 mg/m³.

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

through skin.

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

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

through skin.

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

Formaldehyde EU OEL (Europe, 3/2024) Skin sensitiser.

STEL 15 minutes: 0.6 ppm. STEL 15 minutes: 0.74 mg/m³. TWA 8 hours: 0.3 ppm. TWA 8 hours: 0.37 mg/m³.

F-Butyl acetate Government regulation of Czech Republic PEL/NPK-P (Czech

Republic, 12/2023)

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

Methylisobutylketone | Government regulation of Czech Republic PEL/NPK-P (Czech

Republic, 12/2023) Absorbed through skin.

TWA 8 hours: 83 mg/m³. TWA 8 hours: 20 ppm. STEL 15 minutes: 208 mg

STEL 15 minutes: 208 mg/m³. STEL 15 minutes: 50 ppm.

1-Methoxy 2-propanol Government regulation of Czech Republic PEL/NPK-P (Czech

Republic, 12/2023) Absorbed through skin.

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TWA 8 hours: 270 mg/m³. TWA 8 hours: 72.09 ppm. STEL 15 minutes: 550 mg/m³. STEL 15 minutes: 146.84 ppm.

iso-butanol Government regulation of Czech Republic PEL/NPK-P (Czech

Republic, 12/2023) [butanol]
TWA 8 hours: 300 mg/m³.
TWA 8 hours: 97 ppm.
STEL 15 minutes: 600 mg/m³.
STEL 15 minutes: 194 ppm.

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SECTION 8: Exposure controls/personal protection Government regulation of Czech Republic PEL/NPK-P (Czech acetone Republic, 12/2023) TWA 8 hours: 800 mg/m³. STEL 15 minutes: 1500 mg/m³. STEL 15 minutes: 621.4 ppm. TWA 8 hours: 331.4 ppm. Butan-1-ol Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) [butanol] TWA 8 hours: 300 mg/m³. TWA 8 hours: 97 ppm. STEL 15 minutes: 600 mg/m³. STEL 15 minutes: 194 ppm. Government regulation of Czech Republic PEL/NPK-P (Czech 2-Methoxy-1-methylethyl acetate Republic, 12/2023) Absorbed through skin. TWA 8 hours: 275 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 550 mg/m³. STEL 15 minutes: 100 ppm. Toluene Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) Absorbed through skin. TWA 8 hours: 192 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 384 mg/m³. STEL 15 minutes: 100 ppm. Government regulation of Czech Republic PEL/NPK-P (Czech Formaldehyde Republic, 12/2023) Carc. Sensitiser. TWA 8 hours: 0.37 mg/m³. TWA 8 hours: 0.3 ppm. STEL 15 minutes: 0.74 mg/m³. STEL 15 minutes: 0.6 ppm. **n**-Butvl acetate Working Environment Authority (Denmark, 3/2024) [butylacetat, alle isomerer] TWA 8 hours: 50 ppm. TWA 8 hours: 241 mg/m³. STEL 15 minutes: 723 mg/m³. STEL 15 minutes: 150 ppm. Methylisobutylketone Working Environment Authority (Denmark, 3/2024) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 83 mg/m³. STEL 15 minutes: 208 mg/m³. STEL 15 minutes: 50 ppm. Working Environment Authority (Denmark, 3/2024) [1-methoxy-1-Methoxy 2-propanol **2-propanol**] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 185 mg/m³. STEL 15 minutes: 568 mg/m³. STEL 15 minutes: 150 ppm. Working Environment Authority (Denmark, 3/2024) [butanol, iso-butanol alle isomere] Absorbed through skin. CEIL: 50 ppm. CEIL: 150 mg/m³. Working Environment Authority (Denmark, 3/2024) acetone TWA 8 hours: 250 ppm. TWA 8 hours: 600 mg/m³. STEL 15 minutes: 1200 mg/m³. STEL 15 minutes: 500 ppm.

Working Environment Authority (Denmark, 3/2024) [butanol, Butan-1-ol alle isomere] Absorbed through skin.

CEIL: 50 ppm. CEIL: 150 mg/m³.

2-Methoxy-1-methylethyl acetate

Working Environment Authority (Denmark, 3/2024) [2-methoxy-

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1-methylethylacetatl Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m³. STEL 15 minutes: 550 mg/m³. STEL 15 minutes: 100 ppm. Toluene Working Environment Authority (Denmark, 3/2024) Absorbed through skin. TWA 8 hours: 25 ppm. TWA 8 hours: 94 mg/m³. STEL 15 minutes: 384 mg/m³. STEL 15 minutes: 100 ppm. Formaldehyde Working Environment Authority (Denmark, 3/2024) K. Skin sensitiser. TWA 8 hours: 0.37 mg/m³. TWA 8 hours: 0.3 ppm. STEL 15 minutes: 0.74 mg/m³. STEL 15 minutes: 0.6 ppm. n-Butyl acetate Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m3. TWA 8 hours: 50 ppm. TWA 8 hours: 241 mg/m³. Methylisobutylketone Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) TWA 8 hours: 83 mg/m³. TWA 8 hours: 20 ppm. STEL 15 minutes: 208 mg/m³. STEL 15 minutes: 50 ppm. Occupational exposure limits, Regulation No. 293 (Estonia, 1-Methoxy 2-propanol 4/2024) Absorbed through skin, Sensitiser. TWA 8 hours: 375 mg/m³. TWA 8 hours: 100 ppm. STEL 15 minutes: 568 mg/m³. STEL 15 minutes: 150 ppm. Occupational exposure limits, Regulation No. 293 (Estonia, iso-butanol 4/2024) TWA 8 hours: 150 mg/m³. TWA 8 hours: 50 ppm. acetone Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) TWA 8 hours: 1210 mg/m³. TWA 8 hours: 500 ppm. Butan-1-ol Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) Absorbed through skin. TWA 8 hours: 45 mg/m³. TWA 8 hours: 15 ppm. STEL 5 minutes: 90 mg/m³. STEL 5 minutes: 30 ppm. Occupational exposure limits, Regulation No. 293 (Estonia, 2-Methoxy-1-methylethyl acetate 4/2024) Absorbed through skin, Sensitiser. STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m3. TWA 8 hours: 275 mg/m³. TWA 8 hours: 50 ppm. Toluene Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) Absorbed through skin. TWA 8 hours: 192 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 384 mg/m³. STEL 15 minutes: 100 ppm. Occupational exposure limits, Regulation No. 293 (Estonia, Formaldehyde 4/2024) Carc. Sensitiser.

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TWA 8 hours: 0.37 mg/m³. TWA 8 hours: 0.3 ppm. STEL 5 minutes: 0.6 ppm. STEL 5 minutes: 0.74 mg/m³.

TWA 8 hours: 0.5 ppm. Form: In the healthcare, funeral and

embalming sector.

TWA 8 hours: 0.62 mg/m³. Form: In the healthcare, funeral and

embalming sector.

pr-Butyl acetateEU OEL (Europe, 1/2022)

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

Methylisobutylketone EU OEL (Europe, 1/2022)

TWA 8 hours: 20 ppm. TWA 8 hours: 83 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 208 mg/m³.

1-Methoxy 2-propanol EU OEL (Europe, 1/2022) Absorbed through skin.

TWA 8 hours: 100 ppm. TWA 8 hours: 375 mg/m³. STEL 15 minutes: 150 ppm. STEL 15 minutes: 568 mg/m³.

acetone EU OEL (Europe, 1/2022)

TWA 8 hours: 500 ppm. TWA 8 hours: 1210 mg/m³.

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

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

Toluene EU OEL (Europe, 1/2022) Absorbed through skin.

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

Formaldehyde EU OEL (Europe, 3/2024) Skin sensitiser.

STEL 15 minutes: 0.6 ppm. STEL 15 minutes: 0.74 mg/m³. TWA 8 hours: 0.3 ppm. TWA 8 hours: 0.37 mg/m³.

p∕-Butyl acetate Institute of Occupational Health, Ministry of Social Affairs

(Finland, 10/2021)
TWA 8 hours: 150 ppm.
TWA 8 hours: 720 mg/m³.
STEL 15 minutes: 200 ppm.
STEL 15 minutes: 960 mg/m³.

Methylisobutylketone Institute of Occupational Health, Ministry of Social Affairs

(Finland, 10/2021)
TWA 8 hours: 20 ppm.
TWA 8 hours: 80 mg/m³.
STEL 15 minutes: 50 ppm.
STEL 15 minutes: 210 mg/m³.

1-Methoxy 2-propanol Institute of Occupational Health, Ministry of Social Affairs

(Finland, 10/2021) Absorbed through skin.

TWA 8 hours: 100 ppm. TWA 8 hours: 370 mg/m³. STEL 15 minutes: 150 ppm. STEL 15 minutes: 560 mg/m³.

iso-butanol Institute of Occupational Health, Ministry of Social Affairs

(Finland, 10/2021) [Butanoli] Absorbed through skin.

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TWA 8 hours: 50 ppm.

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TWA 8 hours: 150 ma/m³. STEL 15 minutes: 75 ppm. STEL 15 minutes: 230 mg/m³. acetone

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

TWA 8 hours: 500 ppm. TWA 8 hours: 1200 mg/m³. STEL 15 minutes: 630 ppm. STEL 15 minutes: 1500 mg/m³.

Butan-1-ol Institute of Occupational Health, Ministry of Social Affairs

(Finland, 10/2021) Absorbed through skin.

TWA 8 hours: 50 ppm. TWA 8 hours: 150 mg/m³. STEL 15 minutes: 75 ppm. STEL 15 minutes: 230 mg/m³.

2-Methoxy-1-methylethyl acetate Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) Absorbed through skin.

> TWA 8 hours: 50 ppm. TWA 8 hours: 270 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m³.

Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) Absorbed through skin, Ototoxicant.

> TWA 8 hours: 25 ppm. TWA 8 hours: 81 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 380 mg/m³.

Formaldehyde Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) CARC. Skin sensitiser.

TWA 8 hours: 0.3 ppm. TWA 8 hours: 0.37 mg/m³. STEL 15 minutes: 0.74 mg/m³. STEL 15 minutes: 0.6 ppm.

n-Butyl acetate Ministry of Labor (France, 6/2024)

TWA 8 hours: 50 ppm. Notes: Binding regulatory limit values

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

TWA 8 hours: 241 mg/m³. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)

STEL 15 minutes: 150 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)

STEL 15 minutes: 723 mg/m³. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)

Ministry of Labor (France, 6/2024) Carc 2.

TWA 8 hours: 20 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)

TWA 8 hours: 83 mg/m³. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)

STEL 15 minutes: 208 mg/m³. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)

STEL 15 minutes: 50 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)

Ministry of Labor (France, 6/2024) Absorbed through skin.

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

TWA 8 hours: 188 mg/m³. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)

STEL 15 minutes: 375 mg/m³. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)

STEL 15 minutes: 100 ppm. Notes: Binding regulatory limit values

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

Ministry of Labor (France, 6/2024)

TWA 8 hours: 50 ppm. Notes: Permissible limit values (circulars) TWA 8 hours: 150 mg/m³. Notes: Permissible limit values

Toluene

Methylisobutylketone

1-Methoxy 2-propanol

iso-butanol

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(circulars) acetone Ministry of Labor (France, 6/2024) TWA 8 hours: 500 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA 8 hours: 1210 mg/m³. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 2420 mg/m³. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 1000 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) Butan-1-ol Ministry of Labor (France, 6/2024) STEL 15 minutes: 50 ppm. Notes: Permissible limit values (circulars) STEL 15 minutes: 150 mg/m³. Notes: Permissible limit values (circulars) Ministry of Labor (France, 6/2024) Absorbed through skin. 2-Methoxy-1-methylethyl acetate STEL 15 minutes: 550 mg/m³. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 100 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA 8 hours: 275 mg/m³. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA 8 hours: 50 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) Toluene Ministry of Labor (France, 6/2024) Repr 2. Absorbed through skin, Ototoxicant. TWA 8 hours: 20 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA 8 hours: 76.8 mg/m³. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 100 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 384 mg/m³. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) Formaldehyde Ministry of Labor (France, 6/2024) Carc 1B, Muta 2. Skin sensitiser. TWA 8 hours: 0.3 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 0.6 ppm. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) STEL 15 minutes: 0.74 mg/m³. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA 8 hours: 0.37 mg/m³. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) n-Butyl acetate TRGS 900 OEL (Germany, 6/2024) TWA 8 hours: 300 mg/m³. TWA 8 hours: 62 ppm. PEAK 15 minutes: 600 mg/m³. PEAK 15 minutes: 124 ppm. DFG MAC-values list (Germany, 7/2023) Develop C. TWA 8 hours: 100 ppm. PEAK 15 minutes: 200 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 480 mg/m³. PEAK 15 minutes: 960 mg/m³ 4 times per shift [Interval: 1 hour]. Methylisobutylketone TRGS 900 OEL (Germany, 6/2024) Absorbed through skin. TWA 8 hours: 83 mg/m³. PEAK 15 minutes: 166 mg/m³. TWA 8 hours: 20 ppm.

TWA 8 hours: 20 ppm. PEAK 15 minutes: 40 ppm 4 times per shift [Interval: 1 hour]. · 19/12/2023

through skin.

PEAK 15 minutes: 40 ppm.

DFG MAC-values list (Germany, 7/2023) Develop C. Absorbed

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TWA 8 hours: 83 mg/m³.

1-Methoxy 2-propanol

iso-butanol

acetone

Butan-1-ol

Toluene

PEAK 15 minutes: 166 mg/m³ 4 times per shift [Interval: 1 hour].

TRGS 900 OEL (Germany, 6/2024)

TWA 8 hours: 370 mg/m³.
PEAK 15 minutes: 740 mg/m³.
TWA 8 hours: 100 ppm.
PEAK 15 minutes: 200 ppm.

DFG MAC-values list (Germany, 7/2023) Develop C.

TWA 8 hours: 100 ppm.

PEAK 15 minutes: 200 ppm 4 times per shift [Interval: 1 hour].

TWA 8 hours: 370 mg/m³.

PEAK 15 minutes: 740 mg/m³ 4 times per shift [Interval: 1 hour].

TRGS 900 OEL (Germany, 6/2024)

TWA 8 hours: 310 mg/m³.
PEAK 15 minutes: 310 mg/m³.
TWA 8 hours: 100 ppm.
PEAK 15 minutes: 100 ppm.

DFG MAC-values list (Germany, 7/2023) Develop C.

TWA 8 hours: 100 ppm.

PEAK 15 minutes: 100 ppm 4 times per shift [Interval: 1 hour].

TWA 8 hours: 310 mg/m³.

PEAK 15 minutes: 310 mg/m³ 4 times per shift [Interval: 1 hour].

TRGS 900 OEL (Germany, 6/2024)

TWA 8 hours: 1200 mg/m³. PEAK 15 minutes: 2400 mg/m³. TWA 8 hours: 500 ppm. PEAK 15 minutes: 1000 ppm.

DFG MAC-values list (Germany, 7/2023) Develop B.

TWA 8 hours: 500 ppm.

PEAK 15 minutes: 1000 ppm 4 times per shift [Interval: 1 hour].

TWA 8 hours: 1200 mg/m³.

PEAK 15 minutes: 2400 mg/m³ 4 times per shift [Interval: 1 hour].

TRGS 900 OEL (Germany, 6/2024)

TWA 8 hours: 310 mg/m³.
PEAK 15 minutes: 310 mg/m³.
TWA 8 hours: 100 ppm.
PEAK 15 minutes: 100 ppm.

DFG MAC-values list (Germany, 7/2023) Develop C.

TWA 8 hours: 100 ppm.

PEAK 15 minutes: 100 ppm 4 times per shift [Interval: 1 hour].

TWA 8 hours: 310 mg/m³.

PEAK 15 minutes: 310 mg/m³ 4 times per shift [Interval: 1 hour].

2-Methoxy-1-methylethyl acetate TRGS 900 OEL (Germany, 6/2024)

TWA 8 hours: 270 mg/m³. PEAK 15 minutes: 270 mg/m³. TWA 8 hours: 50 ppm. PEAK 15 minutes: 50 ppm.

DFG MAC-values list (Germany, 7/2023) Develop C.

TWA 8 hours: 50 ppm.

PEAK 15 minutes: 50 ppm 4 times per shift [Interval: 1 hour].

TWA 8 hours: 270 mg/m³.

PEAK 15 minutes: 270 mg/m³ 4 times per shift [Interval: 1 hour].

TRGS 900 OEL (Germany, 6/2024) Absorbed through skin.

TWA 8 hours: 190 mg/m³. PEAK 15 minutes: 380 mg/m³. TWA 8 hours: 50 ppm. PEAK 15 minutes: 100 ppm.

DFG MAC-values list (Germany, 7/2023) Develop C. Absorbed

through skin.

TWA 8 hours: 50 ppm.

PEAK 15 minutes: 100 ppm 4 times per shift [Interval: 1 hour].

TWA 8 hours: 190 mg/m³.

PEAK 15 minutes: 380 mg/m³ 4 times per shift [Interval: 1 hour].

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TRGS 900 OEL (Germany, 6/2024) Skin sensitiser. Formaldehyde TWA 8 hours: 0.37 mg/m³. TWA 8 hours: 0.3 ppm. PEAK 15 minutes: 0.6 ppm. PEAK 15 minutes: 0.74 mg/m³. DFG MAC-values list (Germany, 7/2023) Carc 4, Muta 5, Develop C. Skin sensitiser. TWA 8 hours: 0.3 ppm. CEIL: 1 ml/m³. TWA 8 hours: 0.37 mg/m³. CEIL: 1.2 mg/m³. PEAK 15 minutes: 0.74 mg/m³ 4 times per shift [Interval: 1 hour]. PEAK 15 minutes: 0.6 ppm 4 times per shift [Interval: 1 hour]. n-Butyl acetate Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) TWA 8 hours: 50 ppm. TWA 8 hours: 241 mg/m³. STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m³. Presidential Decree 307/1986: Occupational exposure limit Methylisobutylketone values (Greece, 9/2021) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 410 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 410 mg/m³. Presidential Decree 307/1986: Occupational exposure limit 1-Methoxy 2-propanol values (Greece, 9/2021) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 360 mg/m³. STEL 15 minutes: 300 ppm. STEL 15 minutes: 1080 mg/m³. Presidential Decree 307/1986: Occupational exposure limit iso-butanol values (Greece, 9/2021) TWA 8 hours: 100 ppm. TWA 8 hours: 300 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 300 mg/m³. Presidential Decree 307/1986: Occupational exposure limit acetone values (Greece, 9/2021) TWA 8 hours: 1780 mg/m³. STEL 15 minutes: 3560 mg/m³. Butan-1-ol Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 300 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 300 mg/m³. Presidential Decree 307/1986: Occupational exposure limit 2-Methoxy-1-methylethyl acetate values (Greece, 9/2021) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m³. Toluene Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 192 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 384 mg/m³. Presidential Decree 307/1986: Occupational exposure limit Formaldehyde values (Greece, 9/2021) Skin sensitiser. TWA 8 hours: 0.3 ppm.

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TWA 8 hours: 0.37 mg/m³.

STEL 15 minutes: 0.6 ppm. STEL 15 minutes: 0.74 mg/m³. n-Butyl acetate

5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) Sensitiser.

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

Methylisobutylketone 5/2020. (II. 6.) ITM Decree (Hungary, 12/2023)

TWA 8 hours: 83 mg/m³. PEAK 15 minutes: 208 mg/m³. PEAK 15 minutes: 50 ppm. TWA 8 hours: 20 ppm.

5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) Absorbed through 1-Methoxy 2-propanol

skin.

TWA 8 hours: 375 mg/m³. PEAK 15 minutes: 568 mg/m³. PEAK 15 minutes: 150 ppm. TWA 8 hours: 100 ppm.

5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) acetone

> TWA 8 hours: 1210 mg/m³. TWA 8 hours: 500 ppm.

Butan-1-ol 5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) Absorbed through

TWA 8 hours: 45 mg/m³. PEAK 15 minutes: 90 mg/m³.

5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) 2-Methoxy-1-methylethyl acetate

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

Toluene 5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) Absorbed through

skin.

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

5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) [formaldehid] k Formaldehyde

(1B). Absorbed through skin, Sensitiser.

TWA 8 hours: 0.37 mg/m³. PEAK 15 minutes: 0.74 mg/m³. PEAK 15 minutes: 0.6 ppm. TWA 8 hours: 0.3 ppm.

5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) [formaldehid az egészségügyi ágazat, a temetkezés és balzsamozás területén]

k(1B). Absorbed through skin, Sensitiser.

TWA 8 hours: 0.5 ppm. PEAK 15 minutes: 0.5 ppm. TWA 8 hours: 0.6 mg/m³. PEAK 15 minutes: 0.6 mg/m³.

n-Butyl acetate Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023)

> [bútýlasetat, allir ísómerar] TWA 8 hours: 241 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 723 mg/m3. STEL 15 minutes: 150 ppm.

Methylisobutylketone Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023)

> Absorbed through skin. STEL 15 minutes: 208 mg/m³. STEL 15 minutes: 50 ppm.

TWA 8 hours: 83 mg/m³. TWA 8 hours: 20 ppm.

1-Methoxy 2-propanol Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023)

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Absorbed through skin. STEL 15 minutes: 568 ma/m³. STEL 15 minutes: 150 ppm. TWA 8 hours: 185 mg/m³. TWA 8 hours: 50 ppm. Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023) iso-butanol [Bútanól, allir ísomerar nema n-bútanól] Absorbed through skin. STEL 15 minutes: 150 mg/m³. STEL 15 minutes: 50 ppm. Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023) acetone TWA 8 hours: 600 ma/m³. TWA 8 hours: 250 ppm. Butan-1-ol Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023) Absorbed through skin. STEL 15 minutes: 150 mg/m³. STEL 15 minutes: 50 ppm. TWA 8 hours: 80 mg/m³. TWA 8 hours: 25 ppm. 2-Methoxy-1-methylethyl acetate Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023) Absorbed through skin. STEL 15 minutes: 550 mg/m³. STEL 15 minutes: 100 ppm. TWA 8 hours: 275 mg/m³. TWA 8 hours: 50 ppm. Toluene Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023) Absorbed through skin. STEL 15 minutes: 188 mg/m³. STEL 15 minutes: 50 ppm. TWA 8 hours: 94 mg/m³. TWA 8 hours: 25 ppm. Formaldehyde Ministry of Welfare, List of Exposure Limits (Iceland, 11/2023) K. Absorbed through skin. STEL 15 minutes: 0.74 mg/m³. STEL 15 minutes: 0.6 ppm. TWA 8 hours: 0.37 mg/m³. TWA 8 hours: 0.3 ppm. n-Butyl acetate NAOSH (Ireland, 4/2024) Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 50 ppm. OELV 8 hours: 241 mg/m³. OELV 15 minutes: 150 ppm. OELV 15 minutes: 723 mg/m³. Methylisobutylketone NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 20 ppm. OELV 8 hours: 83 ma/m3. OELV 15 minutes: 50 ppm. OELV 15 minutes: 208 mg/m³. NAOSH (Ireland, 4/2024) Notes: EU derived Occupational 1-Methoxy 2-propanol Exposure Limit Values OELV 8 hours: 100 ppm. OELV 8 hours: 375 mg/m3. OELV 15 minutes: 150 ppm. OELV 15 minutes: 568 mg/m³. iso-butanol NAOSH (Ireland, 4/2024) Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV 8 hours: 150 ppm. OELV 8 hours: 700 mg/m³. NAOSH (Ireland, 4/2024) Notes: EU derived Occupational acetone

NAOSH (Ireland, 4/2024) Notes: Advisory Occupational Exposure Butan-1-ol Date of issue/Date of revision : 19/12/2023 : 14/01/2025 Date of previous issue Version : 1.01 19/61

Exposure Limit Values OELV 8 hours: 500 ppm. OELV 8 hours: 1210 mg/m³.

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2-Methoxy-1-methylethyl acetate

Limit Values (OELVs) OELV 8 hours: 20 ppm.

NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: EU

derived Occupational Exposure Limit Values

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

Toluene

NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: EU

derived Occupational Exposure Limit Values

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

Formaldehyde

NAOSH (Ireland, 4/2024) Carc 1B. Sensitiser. Notes: EU derived

Occupational Exposure Limit Values

OELV 8 hours: 0.3 ppm. OELV 15 minutes: 0.6 ppm. OELV 15 minutes: 0.738 mg/m³. OELV 8 hours: 0.37 mg/m³.

n-Butyl acetate

EU OEL (Europe, 1/2022)

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

Methylisobutylketone

Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020)

Limit value 8 hours: 20 ppm. Limit value 8 hours: 83 mg/m³. Short Term 15 minutes: 50 ppm. Short Term 15 minutes: 208 mg/m³.

1-Methoxy 2-propanol

Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020)

Absorbed through skin.

Limit value 8 hours: 100 ppm. Limit value 8 hours: 375 mg/m³. Short Term 15 minutes: 150 ppm. Short Term 15 minutes: 568 mg/m³.

acetone

Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020)

Limit value 8 hours: 500 ppm. Limit value 8 hours: 1210 mg/m³.

2-Methoxy-1-methylethyl acetate

Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020)

Absorbed through skin. Limit value 8 hours: 50 ppm. Limit value 8 hours: 275 mg/m³. Short Term 15 minutes: 100 ppm. Short Term 15 minutes: 550 mg/m3.

Toluene

Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020)

Absorbed through skin. Limit value 8 hours: 50 ppm. Limit value 8 hours: 192 mg/m³.

Formaldehyde

EU OEL (Europe, 3/2024) Skin sensitiser.

STEL 15 minutes: 0.6 ppm. STEL 15 minutes: 0.74 mg/m³. TWA 8 hours: 0.3 ppm. TWA 8 hours: 0.37 mg/m³.

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Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) n-Butyl acetate TWA 8 hours: 241 mg/m³. STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m³. TWA 8 hours: 50 ppm. Methylisobutylketone Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) TWA 8 hours: 83 mg/m³. TWA 8 hours: 20 ppm. STEL 15 minutes: 50 ppm. STEL 15 minutes: 208 mg/m³. Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) 1-Methoxy 2-propanol Absorbed through skin. TWA 8 hours: 100 ppm. STEL 15 minutes: 568 mg/m³. TWA 8 hours: 375 mg/m³. STEL 15 minutes: 150 ppm. iso-butanol Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) [Butilspirti] TWA 8 hours: 10 mg/m³. Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) acetone TWA 8 hours: 1210 mg/m³. TWA 8 hours: 500 ppm. Butan-1-ol Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) [Butilspirti] TWA 8 hours: 10 mg/m³. 2-Methoxy-1-methylethyl acetate Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m³. Toluene Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) Absorbed through skin. TWA 8 hours: 50 mg/m³. STEL 15 minutes: 150 mg/m³. TWA 8 hours: 14 ppm. STEL 15 minutes: 40 ppm. EU OEL (Europe, 3/2024) Skin sensitiser. Formaldehyde STEL 15 minutes: 0.6 ppm. STEL 15 minutes: 0.74 mg/m³. TWA 8 hours: 0.3 ppm. TWA 8 hours: 0.37 mg/m³. n-Butyl acetate Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) TWA 8 hours: 241 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 723 mg/m³. STEL 15 minutes: 150 ppm. Methylisobutylketone Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) TWA 8 hours: 83 mg/m³. TWA 8 hours: 20 ppm. STEL 15 minutes: 208 mg/m³. STEL 15 minutes: 50 ppm. Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) 1-Methoxy 2-propanol Absorbed through skin. TWA 8 hours: 190 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 300 mg/m³. STEL 15 minutes: 75 ppm. iso-butanol Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) Absorbed through skin. TWA 8 hours: 10 mg/m³. Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) acetone

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TWA 8 hours: 1210 mg/m³.

TWA 8 hours: 500 ppm. STEL 15 minutes: 2420 mg/m³. STEL 15 minutes: 1000 ppm. Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) Butan-1-ol Absorbed through skin. TWA 8 hours: 45 mg/m³. TWA 8 hours: 15 ppm. CEIL: 90 mg/m³. CEIL: 30 ppm. 2-Methoxy-1-methylethyl acetate Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) Absorbed through skin. TWA 8 hours: 250 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 400 mg/m³. STEL 15 minutes: 75 ppm. Toluene Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) Repr. Absorbed through skin. TWA 8 hours: 192 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 384 mg/m³. STEL 15 minutes: 100 ppm. Formaldehyde Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) Carc. Sensitiser. TWA 8 hours: 0.37 mg/m³. TWA 8 hours: 0.3 ppm. STEL 15 minutes: 0.6 ppm. STEL 15 minutes: 0.74 mg/m³. n-Butyl acetate Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m³. TWA 8 hours: 50 ppm. TWA 8 hours: 241 mg/m³. Grand-Duchy Regulation 2016. Chemical agents. Annex I Methylisobutylketone (Luxembourg, 3/2021) TWA 8 hours: 20 ppm. TWA 8 hours: 83 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 208 mg/m³. 1-Methoxy 2-propanol Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 375 mg/m³. STEL 15 minutes: 150 ppm. STEL 15 minutes: 568 mg/m³. Grand-Duchy Regulation 2016. Chemical agents. Annex I acetone (Luxembourg, 3/2021) TWA 8 hours: 500 ppm. TWA 8 hours: 1210 mg/m³. Grand-Duchy Regulation 2016. Chemical agents. Annex I 2-Methoxy-1-methylethyl acetate (Luxembourg, 3/2021) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m³. Toluene Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) Absorbed through skin. STEL 15 minutes: 100 ppm. STEL 15 minutes: 384 mg/m³.

agents. Annex III (Luxembourg, 3/2021) Skin sensitiser. : 19/12/2023

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

Grand-Duchy Regulation 2016. Carcinogens or mutagens

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Formaldehyde

STEL 15 minutes: 0.6 ppm. STEL 15 minutes: 0.74 mg/m³. TWA 8 hours: 0.3 ppm. TWA 8 hours: 0.37 mg/m³. n-Butyl acetate EU OEL (Europe, 1/2022) STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m³. TWA 8 hours: 241 mg/m³. TWA 8 hours: 50 ppm. Methylisobutylketone EU OEL (Europe, 1/2022) TWA 8 hours: 20 ppm. TWA 8 hours: 83 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 208 mg/m³. EU OEL (Europe, 1/2022) Absorbed through skin. 1-Methoxy 2-propanol TWA 8 hours: 100 ppm. TWA 8 hours: 375 mg/m³. STEL 15 minutes: 150 ppm. STEL 15 minutes: 568 mg/m³. EU OEL (Europe, 1/2022) acetone TWA 8 hours: 500 ppm. TWA 8 hours: 1210 mg/m³. 2-Methoxy-1-methylethyl acetate EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m³. Toluene EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 192 mg/m³. TWA 8 hours: 50 ppm. STEL 15 minutes: 384 mg/m³. STEL 15 minutes: 100 ppm. Ministry of Health (Malta, 4/2024) Skin sensitiser. Formaldehyde TWA 8 hours: 0.3 ppm. TWA 8 hours: 0.37 mg/m³. STEL 15 minutes: 0.74 mg/m³. STEL 15 minutes: 0.6 ppm. n-Butyl acetate Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) TWA 8 hours: 241 mg/m³. STEL 15 minutes: 723 mg/m³. STEL 15 minutes: 150 ppm. TWA 8 hours: 50 ppm. Methylisobutylketone Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) TWA 8 hours: 104 mg/m³. STEL 15 minutes: 208 mg/m³. TWA 8 hours: 25 ppm. STEL 15 minutes: 50 ppm. 1-Methoxy 2-propanol Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) Absorbed through skin. TWA 8 hours: 375 mg/m³. STEL 15 minutes: 563 mg/m³. TWA 8 hours: 100 ppm. STEL 15 minutes: 150 ppm. Ministry of Social Affairs and Employment, Legal limit values acetone (Netherlands, 5/2024) STEL 15 minutes: 2420 mg/m³. TWA 8 hours: 1210 mg/m³. TWA 8 hours: 500 ppm. STEL 15 minutes: 1000 ppm.

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Ministry of Social Affairs and Employment, Legal limit values

2-Methoxy-1-methylethyl acetate

(Netherlands, 5/2024)

TWA 8 hours: 550 mg/m³. TWA 8 hours: 100 ppm.

Toluene Ministry of Social Affairs and Employment, Legal limit values

(Netherlands, 5/2024)
TWA 8 hours: 150 mg/m³.
STEL 15 minutes: 384 mg/m³.

STEL 15 minutes: 100 ppm. TWA 8 hours: 39 ppm.

Formaldehyde Ministry of Social Affairs and Employment, Legal limit values

(Netherlands, 5/2024) Carc B1. Skin sensitiser.

TWA 8 hours: 0.15 mg/m³. STEL 15 minutes: 0.5 mg/m³. STEL 15 minutes: 0.41 ppm. TWA 8 hours: 0.12 ppm.

M-Butyl acetate FOR-2011-12-06-1358 (Norway, 12/2022)

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

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

TWA 8 hours: 20 ppm. TWA 8 hours: 83 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 208 mg/m³.

1-Methoxy 2-propanol FOR-2011-12-06-1358 (Norway, 12/2022) Absorbed through skin.

TWA 8 hours: 50 ppm. TWA 8 hours: 180 mg/m³.

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

CEIL: 75 mg/m³. CEIL: 25 ppm.

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

TWA 8 hours: 125 ppm. TWA 8 hours: 295 mg/m³.

Butan-1-ol FOR-2011-12-06-1358 (Norway, 12/2022) Absorbed through skin.

CEIL: 75 mg/m³. CEIL: 25 ppm.

2-Methoxy-1-methylethyl acetate FOR-2011-12-06-1358 (Norway, 12/2022) Absorbed through skin.

TWA 8 hours: 50 ppm. TWA 8 hours: 270 mg/m³.

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

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

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

TWA 8 hours: 0.3 ppm. TWA 8 hours: 0.37 mg/m³.

CEIL: 1 ppm. CEIL: 1.2 mg/m³.

STEL 15 minutes: 0.74 mg/m³. STEL 15 minutes: 0.6 ppm.

Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work

8/2023)

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

Methylisobutylketone Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations

and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland,

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environment (Journal of Laws of 2018, item 1286) (Poland,

8/2023)

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1-Methoxy 2-propanol

iso-butanol

acetone

Butan-1-ol

2-Methoxy-1-methylethyl acetate

Toluene

Formaldehyde

n-Butyl acetate

Methylisobutylketone

1-Methoxy 2-propanol

iso-butanol

acetone

TWA 8 hours: 83 mg/m³. STEL 15 minutes: 200 mg/m³.

Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 8/2023) Absorbed through skin.

TWA 8 hours: 180 mg/m³. STEL 15 minutes: 360 mg/m³.

Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 8/2023) Absorbed through skin.

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

Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 8/2023)

TWA 8 hours: 600 mg/m³. STEL 15 minutes: 1800 mg/m³.

Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 8/2023) Absorbed through skin.

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

Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 8/2023) Absorbed through skin.

TWA 8 hours: 260 mg/m³. STEL 15 minutes: 520 mg/m³.

Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 8/2023) Absorbed through skin.

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

Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 8/2023) Absorbed through skin. Skin sensitiser.

TWA 8 hours: 0.37 mg/m³. STEL 15 minutes: 0.74 mg/m³.

Portuguese Institute of Quality (Portugal, 11/2014)

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

Portuguese Institute of Quality (Portugal, 11/2014) A3.

TWA 8 hours: 20 ppm. STEL 15 minutes: 75 ppm.

Portuguese Institute of Quality (Portugal, 11/2014) A4.

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

Portuguese Institute of Quality (Portugal, 11/2014)

TWA 8 hours: 50 ppm.

Portuguese Institute of Quality (Portugal, 11/2014) A4.

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TWA 8 hours: 500 ppm. STEL 15 minutes: 750 ppm. Butan-1-ol Portuguese Institute of Quality (Portugal, 11/2014) TWA 8 hours: 20 ppm. 2-Methoxy-1-methylethyl acetate EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m³. Toluene Portuguese Institute of Quality (Portugal, 11/2014) A4. TWA 8 hours: 20 ppm. Formaldehyde Portuguese Institute of Quality (Portugal, 11/2014) A2. Sensitiser. CEIL: 0.3 ppm. **n**-Butyl acetate HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) VLA 8 hours: 241 mg/m3. VLA 8 hours: 50 ppm. Short term 15 minutes: 723 mg/m3. Short term 15 minutes: 150 ppm. HG 1218/2006, Annex 1, with subsequent modifications and Methylisobutylketone additions (Romania, 3/2024) VLA 8 hours: 83 mg/m³. VLA 8 hours: 20 ppm. Short term 15 minutes: 208 mg/m³. Short term 15 minutes: 50 ppm. 1-Methoxy 2-propanol HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) Absorbed through skin. VLA 8 hours: 375 mg/m³. VLA 8 hours: 100 ppm. Short term 15 minutes: 568 mg/m³. Short term 15 minutes: 150 ppm. HG 1218/2006, Annex 1, with subsequent modifications and iso-butanol additions (Romania, 3/2024) VLA 8 hours: 100 mg/m³. VLA 8 hours: 33 ppm. Short term 15 minutes: 200 mg/m³. Short term 15 minutes: 66 ppm. acetone HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) VLA 8 hours: 1210 mg/m3. VLA 8 hours: 500 ppm. Butan-1-ol HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) VLA 8 hours: 100 mg/m³. VLA 8 hours: 33 ppm. Short term 15 minutes: 200 mg/m³. Short term 15 minutes: 66 ppm. HG 1218/2006, Annex 1, with subsequent modifications and 2-Methoxy-1-methylethyl acetate additions (Romania, 3/2024) Absorbed through skin. VLA 8 hours: 275 mg/m³. VLA 8 hours: 50 ppm. Short term 15 minutes: 550 mg/m³. Short term 15 minutes: 100 ppm. Toluene HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) R2. Absorbed through skin. VLA 8 hours: 192 mg/m³.

VLA 8 hours: 50 ppm. Short term 15 minutes: 384 mg/m³. Short term 15 minutes: 100 ppm.

HG 1218/2006, Annex 1, with subsequent modifications and

additions (Romania, 3/2024) C2. Skin sensitiser.

VLA 8 hours: 0.37 mg/m³.

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Formaldehyde

VLA 8 hours: 0.3 ppm.

Short term 15 minutes: 0.74 mg/m³. Short term 15 minutes: 0.6 ppm.

n-Butyl acetate Government regulation SR c. 355/2006 (Slovakia, 7/2024)

[butylacetáty] Inhalation sensitiser.

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

Government regulation SR c. 355/2006 (Slovakia, 7/2024) Methylisobutylketone

Absorbed through skin, Inhalation sensitiser.

TWA 8 hours: 83 mg/m³. TWA 8 hours: 20 ppm. STEL 15 minutes: 166 mg/m³. STEL 15 minutes: 40 ppm.

Government regulation SR c. 355/2006 (Slovakia, 7/2024) 1-Methoxy 2-propanol

Absorbed through skin, Inhalation sensitiser.

TWA 8 hours: 375 mg/m³. TWA 8 hours: 100 ppm. STEL 15 minutes: 568 mg/m³. STEL 15 minutes: 150 ppm.

Government regulation SR c. 355/2006 (Slovakia, 7/2024) iso-butanol

> [butylalkoholy] Inhalation sensitiser. TWA 8 hours: 310 mg/m³ (Butyl alkohols). TWA 8 hours: 100 ppm (Butyl alkohols).

Government regulation SR c. 355/2006 (Slovakia, 7/2024) acetone

Inhalation sensitiser.

TWA 8 hours: 1210 mg/m³. TWA 8 hours: 500 ppm.

Butan-1-ol Government regulation SR c. 355/2006 (Slovakia, 7/2024)

> [butvlalkoholv] Inhalation sensitiser. TWA 8 hours: 310 mg/m³ (Butyl alkohols). TWA 8 hours: 100 ppm (Butyl alkohols).

Government regulation SR c. 355/2006 (Slovakia, 7/2024) 2-Methoxy-1-methylethyl acetate

Absorbed through skin, Inhalation sensitiser.

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

Toluene Government regulation SR c. 355/2006 (Slovakia, 7/2024)

Absorbed through skin, Inhalation sensitiser.

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

Government regulation SR c. 356/2006 (Slovakia, 9/2020) Carc Formaldehyde

1B. Sensitiser.

STEL 15 minutes: 0.74 mg/m³. STEL 15 minutes: 0.6 ppm.

Technical guidance value 8 hours: 0.37 mg/m³. Technical guidance value 8 hours: 0.3 ppm.

Regulation on protection of workers from the risks related to n-Butyl acetate exposure to chemical substances at work (Slovenia, 4/2024)

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

exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 150 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

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exposure to chemical substances at work (Slovenia, 4/2024)

Absorbed through skin.

KTV 15 minutes: 723 mg/m³ 4 times per shift [time between two

Regulation on protection of workers from the risks related to

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Methylisobutylketone

TWA 8 hours: 83 mg/m³. TWA 8 hours: 20 ppm.

KTV 15 minutes: 208 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 50 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)

Absorbed through skin. TWA 8 hours: 375 mg/m³. TWA 8 hours: 100 ppm.

KTV 15 minutes: 568 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 150 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)

TWA 8 hours: 310 mg/m³. TWA 8 hours: 100 ppm.

KTV 15 minutes: 310 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 100 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)

TWA 8 hours: 1210 mg/m³. TWA 8 hours: 500 ppm.

KTV 15 minutes: 1000 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 2420 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)

TWA 8 hours: 310 mg/m³. TWA 8 hours: 100 ppm.

KTV 15 minutes: 310 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 100 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) Absorbed through skin.

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

KTV 15 minutes: 550 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 100 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024) Repr Dev 2. Absorbed through skin.

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

KTV 15 minutes: 384 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. KTV 15 minutes: 100 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

Regulation on the protection of workers from the risks related to exposure to carcinogens, mutagens or reprotoxic substances at work (Slovenia, 4/2024) Carc 1B, Muta 2. Absorbed through skin. Skin sensitiser.

Peak 15 minutes: 0.6 ppm 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes].

1-Methoxy 2-propanol

iso-butanol

acetone

Butan-1-ol

2-Methoxy-1-methylethyl acetate

Toluene

Formaldehyde

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n-Butyl acetate

Peak 15 minutes: 0.74 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. TWA 8 hours: 0.3 ppm. TWA 8 hours: 0.37 mg/m³. National institute of occupational safety and health (Spain,

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

National institute of occupational safety and health (Spain, Methylisobutylketone 1/2024)

> TWA 8 hours: 20 ppm. TWA 8 hours: 83 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 208 mg/m³.

National institute of occupational safety and health (Spain, 1-Methoxy 2-propanol

1/2024) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 375 mg/m³. STEL 15 minutes: 150 ppm. STEL 15 minutes: 568 mg/m³.

iso-butanol National institute of occupational safety and health (Spain, 1/2024)

> TWA 8 hours: 50 ppm. TWA 8 hours: 154 mg/m³.

acetone National institute of occupational safety and health (Spain, 1/2024)

TWA 8 hours: 500 ppm. TWA 8 hours: 1210 mg/m³.

Butan-1-ol National institute of occupational safety and health (Spain, 1/2024)

> STEL 15 minutes: 50 ppm. STEL 15 minutes: 154 mg/m³. TWA 8 hours: 20 ppm. TWA 8 hours: 61 mg/m³.

National institute of occupational safety and health (Spain, 2-Methoxy-1-methylethyl acetate 1/2024) Absorbed through skin.

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

Toluene National institute of occupational safety and health (Spain,

> 1/2024) Absorbed through skin. TWA 8 hours: 50 ppm.

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

Formaldehyde National institute of occupational safety and health (Spain,

> 1/2024) Carc 1B. Skin sensitiser. STEL 15 minutes: 0.6 ppm. STEL 15 minutes: 0.74 mg/m³. TWA 8 hours: 0.37 mg/m³. TWA 8 hours: 0.3 ppm.

Work environment authority Regulation 2018:1 (Sweden, n-Butyl acetate

> 11/2022) [butyl acetate] TWA 8 hours: 50 ppm. TWA 8 hours: 241 mg/m³. STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m³.

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Work environment authority Regulation 2018:1 (Sweden, Methylisobutylketone 11/2022)

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TWA 8 hours: 20 ppm. TWA 8 hours: 83 ma/m3. STEL 15 minutes: 50 ppm. STEL 15 minutes: 200 mg/m³. 1-Methoxy 2-propanol Work environment authority Regulation 2018:1 (Sweden, 11/2022) Absorbed through skin. STEL 15 minutes: 150 ppm. STEL 15 minutes: 568 mg/m³. TWA 8 hours: 190 mg/m³. TWA 8 hours: 50 ppm. Work environment authority Regulation 2018:1 (Sweden, iso-butanol 11/2022) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 150 mg/m³. STEL 15 minutes: 75 ppm. STEL 15 minutes: 250 mg/m³. Work environment authority Regulation 2018:1 (Sweden, acetone 11/2022) TWA 8 hours: 250 ppm. TWA 8 hours: 600 mg/m³. STEL 15 minutes: 500 ppm. STEL 15 minutes: 1200 mg/m³. Butan-1-ol Work environment authority Regulation 2018:1 (Sweden, 11/2022) Absorbed through skin. TWA 8 hours: 15 ppm. TWA 8 hours: 45 mg/m³. STEL 15 minutes: 30 ppm. STEL 15 minutes: 90 mg/m³. 2-Methoxy-1-methylethyl acetate Work environment authority Regulation 2018:1 (Sweden, 11/2022) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 550 mg/m3. Toluene Work environment authority Regulation 2018:1 (Sweden, 11/2022) Absorbed through skin, Ototoxicant. TWA 8 hours: 50 ppm. TWA 8 hours: 192 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 384 mg/m³. Formaldehyde Work environment authority Regulation 2018:1 (Sweden, 11/2022) Carc. Absorbed through skin, Sensitiser. TWA 8 hours: 0.3 ppm. TWA 8 hours: 0.37 mg/m³. STEL 15 minutes: 0.6 ppm. STEL 15 minutes: 0.74 mg/m³. n-Butyl acetate SUVA (Switzerland, 1/2024) TWA 8 hours: 50 ppm. TWA 8 hours: 240 mg/m³. STEL 15 minutes: 150 ppm. STEL 15 minutes: 720 mg/m³. SUVA (Switzerland, 1/2024) Absorbed through skin. Methylisobutylketone TWA 8 hours: 20 ppm. TWA 8 hours: 82 mg/m³. STEL 15 minutes: 40 ppm. STEL 15 minutes: 164 mg/m³. SUVA (Switzerland, 1/2024) 1-Methoxy 2-propanol TWA 8 hours: 100 ppm. TWA 8 hours: 360 mg/m³. STEL 15 minutes: 200 ppm. STEL 15 minutes: 720 mg/m³. iso-butanol SUVA (Switzerland, 1/2024)

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TWA 8 hours: 50 ppm.

TWA 8 hours: 150 ma/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 150 mg/m³. acetone SUVA (Switzerland, 1/2024) TWA 8 hours: 500 ppm. TWA 8 hours: 1200 mg/m³. STEL 15 minutes: 1000 ppm. STEL 15 minutes: 2400 mg/m³. Butan-1-ol SUVA (Switzerland, 1/2024) TWA 8 hours: 100 ppm. TWA 8 hours: 310 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 310 mg/m³. 2-Methoxy-1-methylethyl acetate SUVA (Switzerland, 1/2024) TWA 8 hours: 50 ppm. TWA 8 hours: 275 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 275 mg/m³. SUVA (Switzerland, 1/2024) Develop 2. Absorbed through skin, Toluene Ototoxicant. TWA 8 hours: 50 ppm. TWA 8 hours: 190 mg/m³. STEL 15 minutes: 200 ppm. STEL 15 minutes: 760 mg/m³. SUVA (Switzerland, 1/2024) Carc 1B. Sensitiser. Formaldehyde TWA 8 hours: 0.3 ppm. TWA 8 hours: 0.37 mg/m³. STEL 15 minutes: 0.6 ppm. STEL 15 minutes: 0.74 mg/m³. n-Butyl acetate EH40/2005 WELs (United Kingdom (UK), 1/2020) STEL 15 minutes: 966 mg/m³. STEL 15 minutes: 200 ppm. TWA 8 hours: 724 mg/m³. TWA 8 hours: 150 ppm. Methylisobutylketone EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed through skin. STEL 15 minutes: 416 mg/m³. STEL 15 minutes: 100 ppm. TWA 8 hours: 208 mg/m³. TWA 8 hours: 50 ppm. 1-Methoxy 2-propanol EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed through skin. STEL 15 minutes: 560 mg/m³. STEL 15 minutes: 150 ppm. TWA 8 hours: 375 mg/m³. TWA 8 hours: 100 ppm. iso-butanol EH40/2005 WELs (United Kingdom (UK), 1/2020) STEL 15 minutes: 231 mg/m³. STEL 15 minutes: 75 ppm. TWA 8 hours: 154 mg/m³. TWA 8 hours: 50 ppm. acetone EH40/2005 WELs (United Kingdom (UK), 1/2020) STEL 15 minutes: 3620 mg/m³. STEL 15 minutes: 1500 ppm. TWA 8 hours: 500 ppm. TWA 8 hours: 1210 mg/m³. EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed Butan-1-ol through skin. STEL 15 minutes: 154 mg/m³. STEL 15 minutes: 50 ppm. 2-Methoxy-1-methylethyl acetate EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed

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STEL 15 minutes: 548 mg/m³.

through skin.

| TWA 8 hours: 50 ppm. |
|---|
| TWA 8 hours: 274 mg/m³. |
| STEL 15 minutes: 100 ppm. |
| EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed |
| through skin. |
| STEL 15 minutes: 384 mg/m³. |
| TWA 8 hours: 191 mg/m³. |
| TWA 8 hours: 50 ppm. |
| STEL 15 minutes: 100 ppm. |
| EH40/2005 WELs (United Kingdom (UK), 1/2020) Carc. |
| STEL 15 minutes: 2.5 mg/m³. |
| STEL 15 minutes: 2 ppm. |
| TWA 8 hours: 2 ppm. |
| TWA 8 hours: 2.5 mg/m³. |
| |

Biological exposure indices

| Product/ingredient name | Exposure indices |
|----------------------------|---|
| Foluene | VGU BEI (Austria, 9/2020) BEI Fitness: 250 μg/l, toluene [in blood]. Sampling time: one year. BEI Fitness: 0.8 mg/l, o-cresol [in urine]. Sampling time: one year. BEI Fitness: 130000 /μl, platelets (non-pathological differential blood count) [in blood]. Sampling time: one year. BEI Fitness: 150000 /μl, platelets [in blood]. Sampling time: one year. BEI Fitness: 3700 to 13000 /μl, leukocytes (non-pathological differential blood count) [in blood]. Sampling time: one year. BEI Fitness: 4000 to 13000 /μl, leukocytes [in blood]. Sampling time: one year. BEI Fitness - men: 3.8 million/μl, erythrocytes [in blood]. Sampling time: one year. BEI Fitness - women: 3.2 million/μl, erythrocytes [in blood]. Sampling time: one year. BEI Fitness - men: 12 g/dl, hemoglobin [in blood]. Sampling time: one year. BEI Fitness - women: 10 g/dl, hemoglobin [in blood]. Sampling |
| | time: one year. |
| No exposure indices known. | |
| acetone | Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) BLV: 80 mg/l, acetone [in urine]. Sampling time: at the end of the exposure or at the end of the work shift. |
| Toluene | Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) BLV: 1.6 mmol/mmol creatinine, hippuric acid [in urine]. Sampling time: at the end of the exposure or at the end of the work shift. |
| Methylisobutylketone | Ordinance on the protection of workers from exposure to hazardous chemicals at work, biological limit values (Annex IV) (Croatia, 12/2023) 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. |
| acetone | Ordinance on the protection of workers from exposure to hazardous chemicals at work, biological limit values (Annex IV) (Croatia, 12/2023) 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 |

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Toluene

No exposure indices known.

Voluene

No exposure indices known.

No exposure indices known.

No exposure indices known.

Toluene

Voluene

Methylisobutylketone

1-Methoxy 2-propanol

work shift

BEI: 0.34 mmol/l, acetone [in blood]. Sampling time: at the end of the work shift.

Ordinance on the protection of workers from exposure to hazardous chemicals at work, biological limit values (Annex IV) (Croatia, 12/2023)

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.

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.

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.

Biological limit values (BLV) - Labour Code / ANSES (France, 4/2023)

BLV: 30 μg/l, toluene [in urine]. Sampling time: at the end of the shift.

BLV: 20 μg/l, toluene [in blood]. Sampling time: at the beginning of the shift and at the end of the week.

BLV: $300 \mu g/g$ Cr, ortho-cresol [in urine]. Sampling time: end of shift and weekend.

DFG BEI-values list (Germany, 7/2023) 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, 2/2024)

BEI: 0.7 mg/l, 4-methylpentan-2-one [in urine]. Sampling time: end of exposure or end of shift.

DFG BEI-values list (Germany, 7/2023)

BEI: 15 mg/l, propylene glycol 1-methyl ether [in urine]. Sampling time: end of exposure or end of shift.

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TRGS 903 - BEI Values (Germany, 2/2024)

BEI: 15 mg/l, 1-methoxypropan-2-ol [in urine]. Sampling time: end of exposure or end of shift.

DFG BEI-values list (Germany, 7/2023)

BEI: 50 mg/l, acetone [in urine]. Sampling time: end of exposure or end of shift.

TRGS 903 - BEI Values (Germany, 2/2024)

BEI: 50 mg/l, acetone [in urine]. Sampling time: end of exposure

DFG BEI-values list (Germany, 7/2023)

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, 2/2024)

BEI: 2 mg/g creatinine, butan-1-ol (butanol-1) (after hydrolysis) [in urinel. 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.

DFG BEI-values list (Germany, 7/2023) Notes: danger from percutaneous absorption (see p. 211 and p. 228).

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

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

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

TRGS 903 - BEI Values (Germany, 2/2024)

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.

No exposure indices known.

5/2020. (II. 6.) ITM Decree (Hungary, 12/2023)

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.

5/2020. (II. 6.) ITM Decree (Hungary, 12/2023)

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

5/2020. (II. 6.) ITM Decree (Hungary, 12/2023)

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.

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5/2020. (II. 6.) ITM Decree (Hungary, 12/2023)

Methylisobutylketone

acetone

acetone

Butan-1-ol

Toluene

Butan-1-ol

Toluene

No exposure indices known.

Methylisobutylketone

acetone

Toluene

No exposure indices known.

acetone

Toluene

No exposure indices known.

Methylisobutylketone

acetone

Toluene

acetone

Toluene

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.

NAOSH (Ireland, 1/2011)

BMGV: 1 mg/l, MIBK [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.

NAOSH (Ireland, 1/2011)

BMGV: 50 mg/l, acetone [in urine]. Sampling time: end of shift -As soon as possible after exposure ceases.

NAOSH (Ireland, 1/2011)

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

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

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

Minister Cabinet Regulations No.325 - BEI (Latvia, 3/2024)

BEI: 80 mg/l, acetone [in urine]. Sampling time: at the end of the exposure or at the end of the shift.

Minister Cabinet Regulations No.325 - BEI (Latvia, 3/2024)

BEI: 600 μg/l, toluene [in blood]. Sampling time: at the end of the exposure.

BEI: 75 μg/l, toluene [in urine]. Sampling time: end of the shift. BEI: 1.5 mg/l, o-cresol (after hydrolysis) [in urine]. Sampling time: at the end of the exposure or at the end of the shift.

Portuguese Institute of Quality (Portugal, 11/2014)

BEI: 1 mg/l, methylisobutylketone (MIBK) [in urine]. Sampling time: end of shift.

Portuguese Institute of Quality (Portugal, 11/2014)

BEI: 50 mg/l, acetone [in urine]. Sampling time: end of shift.

Portuguese Institute of Quality (Portugal, 11/2014)

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

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

HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2024)

OBLV: 50 mg/l, acetone [in urine]. Sampling time: end of shift.

HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2024)

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.

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Methylisobutylketone

Government regulation SR c. 355/2006 (Slovakia, 5/2024)

BLV: 2.67 µmol/mmol creatinine, as hexon [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 2.36 mg/g creatinine, as hexon [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 35.4 µmol/l, as hexon [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 3.5 mg/l, as hexon [in urine]. Sampling time: at the end of exposure or work shift.

acetone

Government regulation SR c. 355/2006 (Slovakia, 5/2024)

BLV: 103.9 µmol/mmol creatinine, as acetone [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 53.36 mg/g creatinine, as acetone [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 1378 μ mol/I, as acetone [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 80 mg/l, as acetone [in urine]. Sampling time: at the end of exposure or work shift.

Butan-1-ol

Government regulation SR c. 355/2006 (Slovakia, 5/2024)

BLV: 15.34 µmol/mmol creatinine, as n-butyl alcohol [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 10 mg/g creatinine, as n-butyl alcohol [in urine]. Sampling time: at the end of exposure or work shift.

BLV: 3.13 µmol/mmol creatinine, as n-butyl alcohol [in urine]. Sampling time: before the next work shift.

BLV: 2 mg/g creatinine, as n-butyl alcohol [in urine]. Sampling time: before the next work shift.

Toluene

Government regulation SR c. 355/2006 (Slovakia, 5/2024)

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

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

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

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

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

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

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

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

BLV: 1.5 mg/l, as o-cresol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

BLV: $600 \mu g/l$, as toluene [in blood]. Sampling time: at the end of exposure or work shift.

Methylisobutylketone

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)

BAT: 0.7 mg/l, 4-methylpentan-2-one [in urine]. Sampling time: at the end of the work shift.

1-Methoxy 2-propanol

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Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)

BAT: 15 mg/l, 1-methoxypropan-2-ol [in urine]. Sampling time: at

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acetone

Butan-1-ol

Toluene

Methylisobutylketone

acetone

Toluene

No exposure indices known.

Methylisobutylketone

1-Methoxy 2-propanol

acetone

Butan-1-ol

Toluene

the end of the work shift.

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)

BAT: 80 mg/l, acetone [in urine]. Sampling time: at the end of the work shift.

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)

BAT: 10 mg/g creatinine, 1-butanol (after hydrolysis) [in urine]. Sampling time: at the end of the work shift.

BAT: 2 mg/g creatinine, 1-butanol (after hydrolysis) [in urine]. Sampling time: before the work shift.

Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 4/2024)

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

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

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

National institute of occupational safety and health (Spain, 1/2024)

VLB: 1 mg/l, methyl isobutyl ketone [in urine]. Sampling time: end of shift.

National institute of occupational safety and health (Spain, 1/2024)

VLB: 50 mg/l, acetone [in urine]. Sampling time: end of shift.

National institute of occupational safety and health (Spain, 1/2024)

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

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

SUVA (Switzerland, 1/2024)

BEI: 0.7 mg/l, 4-methylpentan-2-one [in urine]. Sampling time: immediately after exposure or after working hours.

SUVA (Switzerland, 1/2024)

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.

SUVA (Switzerland, 1/2024)

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.

SUVA (Switzerland, 1/2024)

BEI: 2 mg/g creatinine, n-butanol [in urine]. Sampling time: before the next shift or 4pm.

SUVA (Switzerland, 1/2024)

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

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

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

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

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

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

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

Methylisobutylketone

EH40/2005 BMGVs (United Kingdom (UK), 1/2020)

BGV: 20 µmol/l, 4-methylpentan-2-one [in urine]. Sampling time: post shift.

Recommended monitoring procedures

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

DNELs/DMELs

Product/ingredient name

n-Butyl acetate

Result

DNEL - General population - Long term - Oral

2 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - General population - Short term - Oral

2 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Dermal

3.4 mg/kg bw/day Effects: Systemic

DNEL - General population - Short term - Dermal

6 mg/kg bw/day Effects: Systemic

DNEL - Workers - Long term - Dermal

7 mg/kg bw/day Effects: Systemic

DNEL - Workers - Short term - Dermal

11 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

12 mg/m³
<u>Effects</u>: Systemic

DNEL - General population - Long term - Inhalation

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35.7 mg/m³ Effects: Local

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DNEL - Workers - Long term - Inhalation

48 mg/m³

Effects: Systemic

DNEL - General population - Short term - Inhalation

300 mg/m³ Effects: Local

DNEL - General population - Short term - Inhalation

300 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation

300 mg/m³ Effects: Local

DNEL - Workers - Short term - Inhalation

600 mg/m³ Effects: Local

DNEL - Workers - Short term - Inhalation

600 mg/m³
<u>Effects</u>: Systemic

DNEL - General population - Long term - Dermal

4.2 mg/kg bw/day Effects: Systemic

DNEL - Workers - Long term - Dermal

11.8 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

14.7 mg/m³ Effects: Local

DNEL - General population - Long term - Inhalation

14.7 mg/m³ Effects: Systemic

DNEL - Workers - Long term - Inhalation

83 mg/m³ Effects: Local

DNEL - Workers - Long term - Inhalation

83 mg/m³

Effects: Systemic

DNEL - General population - Short term - Inhalation

155.2 mg/m³ Effects: Local

DNEL - General population - Short term - Inhalation

155.2 mg/m³ Effects: Systemic

DNEL - Workers - Short term - Inhalation

208 mg/m³ Effects: Local

DNEL - Workers - Short term - Inhalation

208 mg/m³ Effects: Systemic

DNEL - General population - Long term - Oral

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4.2 mg/kg bw/day

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Methylisobutylketone

Effects: Systemic

1-Methoxy 2-propanol

DNEL - General population - Long term - Oral

33 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

43.9 mg/m³ Effects: Systemic

DNEL - General population - Long term - Dermal

78 mg/kg bw/day Effects: Systemic

DNEL - Workers - Long term - Dermal

183 mg/kg bw/day Effects: Systemic

DNEL - Workers - Long term - Inhalation

369 mg/m³

Effects: Systemic

DNEL - Workers - Short term - Inhalation

553.5 mg/m³ Effects: Local

DNEL - Workers - Short term - Inhalation

553.5 mg/m³ Effects: Systemic

DNEL - General population - Long term - Inhalation

55 mg/m³ Effects: Local

DNEL - Workers - Long term - Inhalation

310 mg/m³ Effects: Local

DNEL - General population - Long term - Oral

62 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Dermal

62 mg/kg bw/day Effects: Systemic

DNEL - Workers - Long term - Dermal

186 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

200 mg/m³ Effects: Systemic

DNEL - Workers - Long term - Inhalation

1210 mg/m³ Effects: Systemic

DNEL - Workers - Short term - Inhalation

2420 mg/m³ Effects: Local

DNEL - General population - Long term - Oral

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1.5625 mg/kg bw/day <u>Effects</u>: Systemic

Butan-1-ol

iso-butanol

acetone

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2-Methoxy-1-methylethyl acetate

Toluene

DNEL - General population - Long term - Dermal

3.125 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

55.357 mg/m³ Effects: Systemic

DNEL - General population - Long term - Inhalation

155 mg/m³ Effects: Local

DNEL - Workers - Long term - Inhalation

310 mg/m³ Effects: Local

DNEL - General population - Long term - Inhalation

33 mg/m³ Effects: Local

DNEL - General population - Long term - Inhalation

33 mg/m³

Effects: Systemic

DNEL - General population - Long term - Oral

36 mg/kg bw/day Effects: Systemic

DNEL - Workers - Long term - Inhalation

275 mg/m³ Effects: Systemic

DNEL - General population - Long term - Dermal

320 mg/kg bw/day Effects: Systemic

DNEL - Workers - Short term - Inhalation

550 mg/m³ Effects: Local

DNEL - Workers - Long term - Dermal

796 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Oral

8.13 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

56.5 ma/m³ Effects: Local

DNEL - General population - Long term - Inhalation

56.5 mg/m³ Effects: Systemic

DNEL - Workers - Long term - Inhalation

192 mg/m³ Effects: Local

DNEL - Workers - Long term - Inhalation

192 mg/m³ Effects: Systemic

DNEL - General population - Long term - Dermal

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226 mg/kg bw/day

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Effects: Systemic

DNEL - General population - Short term - Inhalation

226 mg/m³ Effects: Local

DNEL - General population - Short term - Inhalation

226 mg/m³ Effects: Systemic

DNEL - Workers - Long term - Dermal

384 mg/kg bw/day Effects: Systemic

DNEL - Workers - Short term - Inhalation

384 mg/m³ Effects: Local

DNEL - Workers - Short term - Inhalation

384 mg/m³ Effects: Systemic

DNEL - General population - Long term - Dermal

12 µg/cm² Effects: Local

DNEL - Workers - Long term - Dermal

37 µg/cm² Effects: Local

DNEL - General population - Long term - Inhalation

0.1 mg/m³ Effects: Local

DNEL - Workers - Long term - Inhalation

0.375 mg/m³ Effects: Local

DNEL - Workers - Short term - Inhalation

0.75 mg/m³ Effects: Local

DNEL - General population - Long term - Inhalation

3.2 mg/m³

Effects: Systemic

DNEL - General population - Long term - Oral

4.1 mg/kg bw/day Effects: Systemic

DNEL - Workers - Long term - Inhalation

9 mg/m³

Effects: Systemic

DNEL - General population - Long term - Dermal

102 mg/kg bw/day Effects: Systemic

DNEL - Workers - Long term - Dermal

240 mg/kg bw/day Effects: Systemic

PNECs

Not available.

Formaldehyde

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8.2 Exposure controls

Appropriate engineering controls

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

Individual protection measures

Hygiene measures

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

Eye/face protection

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

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.

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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: VariousOdour: Slight

Odour threshold : Not available.

Melting point/freezing point : Not available.

Initial boiling point and

boiling range

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

Flammability : Not available.

Lower and upper explosion : Fower: 1.4% (n-butyl acetate)

limit Upper: 13% (acetone)

Flash point : Dosed cup: -19°C (-2.2°F)

Auto-ignition temperature :

| Ingredient name | °C | °F | Method |
|---------------------------------|-----|-------|-----------|
| Methoxy 2-propanol | 270 | 518 | |
| 2-Methoxy-1-methylethyl acetate | 333 | 631.4 | DIN 51794 |

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

Solubility(ies)

Not available.

Solubility in water : Not available.

Partition coefficient: n-octanol/ : Not applicable.

water

Vapour pressure

| | Vapour Pressure at 20°C | | | Vapour pressure at 50°C | | | |
|----------------------|-------------------------|-----|--------|-------------------------|-----|--------|--|
| Ingredient name | mm Hg | kPa | Method | mm Hg | kPa | Method | |
| acetone | 180.01463 | 24 | | | | | |
| Methylisobutylketone | 15.75128 | 2.1 | | | | | |

Relative density : Not available.

Density : 1√.1 g/cm³

Vapour density : Not available.

Particle characteristics

Median particle size : Not applicable.

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Explosive properties : Not available.

Oxidising properties : Not available.

9.2.2 Other safety characteristics

Not applicable.

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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

Mat - Oral - LD50 10760 mg/kg

FU

Rabbit - Dermal - LD50

14112 mg/kg

Rat - Inhalation - LC50 Vapour

0.74 mg/l [4 hours]

Methylisobutylketone Rat - Oral - LD50

2080 mg/kg

1-Methoxy 2-propanol Rabbit - Dermal - LD50

13 g/kg

Rat - Oral - LD50

6600 mg/kg

<u>Toxic effects</u>: Brain and Coverings - Other degenerative changes Behavioral - General anesthetic Lung, Thorax, or

Respiration - Dyspnea

iso-butanol Rat - Oral - LD50

2460 mg/kg

Rabbit - Dermal - LD50

3400 mg/kg

Rat - Inhalation - LC50 Vapour

19200 mg/m³ [4 hours]

acetone Rat - Oral - LD50

5800 mg/kg

Toxic effects: Behavioral - Altered sleep time (including

change in righting reflex) Behavioral - Tremor

Butan-1-ol Rat - Oral - LD50

790 mg/kg

<u>Toxic effects</u>: Liver - Fatty liver degeneration Kidney, Ureter,

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and Bladder - Other changes Blood - Other changes

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Rabbit - Dermal - LD50

3400 mg/kg

Rat - Inhalation - LC50 Vapour

24000 mg/m³ [4 hours]

2-Methoxy-1-methylethyl acetate Rat - Oral - LD50

8532 mg/kg

Rabbit - Dermal - LD50

>5 g/kg

Toluene Rat - Oral - LD50

636 mg/kg

Rat - Inhalation - LC50 Vapour

49 g/m³ [4 hours]

Formaldehyde Rat - Oral - LD50

100 mg/kg

Rabbit - Dermal - LD50

270 mg/kg

Rat - Inhalation - LC50 Gas.

250 ppm [4 hours]

Conclusion/Summary [Product]: Not available.

Acute toxicity estimates

| Product/ingredient name | Oral (mg/ kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---------------------------------|------------------|-------------------|--------------------------------|-----------------------------------|--|
| C EMAILLACK FM 3021-15 | 14370.9 | 108600.0 | 253400.0 | 56.9 | N/A |
| n-Butyl acetate | 10760 | 14112 | N/A | N/A | N/A |
| Methylisobutylketone | 2080 | N/A | N/A | 11 | N/A |
| 1-Methoxy 2-propanol | 6600 | 13000 | N/A | N/A | N/A |
| iso-butanol | 2460 | 3400 | N/A | N/A | N/A |
| acetone | 5800 | N/A | N/A | N/A | N/A |
| Butan-1-ol | 790 | 3400 | N/A | 24 | N/A |
| 2-Methoxy-1-methylethyl acetate | 8532 | N/A | N/A | N/A | N/A |
| Toluene | N/A | N/A | N/A | 49 | N/A |
| Formaldehyde | 100 | 300 | 700 | N/A | N/A |

Skin corrosion/irritation

Product/ingredient name Result

n-Butyl acetate Rabbit - Skin - Moderate irritant

> Duration of treatment/exposure: 24 hours Amount/concentration applied: 500 mg

Rabbit - Skin - Mild irritant Methylisobutylketone

> Duration of treatment/exposure: 24 hours Amount/concentration applied: 500 mg

1-Methoxy 2-propanol Rabbit - Skin - Mild irritant

Amount/concentration applied: 500 mg

Rabbit - Skin - Mild irritant acetone

> **Duration of treatment/exposure**: 24 hours Amount/concentration applied: 500 mg

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Rabbit - Skin - Mild irritant

Amount/concentration applied: 395 mg

Butan-1-ol Rabbit - Skin - Moderate irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 20 mg

Toluene Pig - Skin - Mild irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 250 uL

Rabbit - Skin - Mild irritant

Amount/concentration applied: 435 mg

Rabbit - Skin - Moderate irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 20 mg

Rabbit - Skin - Moderate irritant Amount/concentration applied: 500 mg

Human - Skin - Mild irritant

<u>Duration of treatment/exposure</u>: 72 hours <u>Amount/concentration applied</u>: 150 ug I

Human - Skin - Severe irritant Amount/concentration applied: 0.01 %

Rabbit - Skin - Mild irritant

Amount/concentration applied: 540 mg

Rabbit - Skin - Moderate irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 50 mg

Rabbit - Skin - Severe irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 2 mg

Rabbit - Skin - Severe irritant

Amount/concentration applied: 0.8 %

Mouse - Skin - Moderate irritant Amount/concentration applied: 7 %

Rat - Skin - Moderate irritant <u>Amount/concentration applied</u>: 7 %

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Formaldehyde

Product/ingredient name Result

7-Butyl acetate Rabbit - Eyes - Moderate irritant

Amount/concentration applied: 100 mg

Methylisobutylketone Rabbit - Eyes - Moderate irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 100 uL

Rabbit - Eyes - Severe irritant Amount/concentration applied: 40 mg

1-Methoxy 2-propanol Rabbit - Eyes - Mild irritant

Duration of treatment/exposure: 24 hours

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Amount/concentration applied: 500 mg

acetone Human - Eyes - Mild irritant

Amount/concentration applied: 186300 ppm

Rabbit - Eyes - Mild irritant

Amount/concentration applied: 10 uL

Rabbit - Eyes - Moderate irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 20 mg

Rabbit - Eyes - Severe irritant

Amount/concentration applied: 20 mg

Rabbit - Eyes - Severe irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 2 mg

Rabbit - Eyes - Severe irritant

Amount/concentration applied: 0.005 MI

Rabbit - Eyes - Severe irritant

Amount/concentration applied: 1.62 mg

Rabbit - Eyes - Mild irritant

<u>Duration of treatment/exposure</u>: 0.5 minutes <u>Amount/concentration applied</u>: 100 mg

Rabbit - Eyes - Mild irritant

Amount/concentration applied: 870 ug

Rabbit - Eyes - Severe irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 2 mg

Rabbit - Eyes - Severe irritant

Amount/concentration applied: 0.1 MI

Human - Eyes - Mild irritant

<u>Duration of treatment/exposure</u>: 6 minutes <u>Amount/concentration applied</u>: 1 ppm

Rabbit - Eyes - Severe irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 750 ug

Rabbit - Eyes - Severe irritant

Amount/concentration applied: 750 ug

Rabbit - Eyes - Severe irritant

Amount/concentration applied: 37 %

Rabbit - Eyes - Severe irritant

Amount/concentration applied: 10 mg

Mouse - Eyes - Moderate irritant

Amount/concentration applied: 3 %

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Conclusion/Summary [Product] : Not available.

Respiratory corrosion/irritation

Not available.

Butan-1-ol

Toluene

Formaldehyde

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Conclusion/Summary [Product] : Not available.

Respiratory or skin sensitization

Not available.

Skin

Conclusion/Summary [Product] : Not available.

Respiratory

Conclusion/Summary [Product] : Not available.

Germ cell mutagenicity

Not available.

Conclusion/Summary [Product]: Not available.

Carcinogenicity

Not available.

Conclusion/Summary [Product] : Not available.

Reproductive toxicity

Not available.

Conclusion/Summary [Product]: Not available.

Specific target organ toxicity (single exposure)

| Product/ingredient name | Result |
|-------------------------|--------|
|-------------------------|--------|

Methylisobutylketone STOT SE 3, H336 (Narcotic effects)

1-Methoxy 2-propanol STOT SE 3, H336 (Narcotic effects)

STOT SE 3, H336 (Narcotic effects)

iso-butanol STOT SE 3, H335 (Respiratory tract irritation)

STOT SE 3, H336 (Narcotic effects)

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acetone STOT SE 3, H336 (Narcotic effects)

Butan-1-ol STOT SE 3, H335 (Respiratory tract irritation)

2-Methoxy-1-methylethyl acetate STOT SE 3, H336 (Narcotic effects)
Toluene STOT SE 3, H336 (Narcotic effects)
STOT SE 3, H336 (Narcotic effects)

Formaldehyde STOT SE 3, H335 (Respiratory tract irritation)

Specific target organ toxicity (repeated exposure)

Product/ingredient name Result

√oluene STOT RE 2, H373

Aspiration hazard

Product/ingredient name Result

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: May cause an allergic skin reaction.

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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

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 : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary [Product]: Not available.

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

to very low levels.

Carcinogenicity : May cause 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.

Conclusion/Summary [Product] : The product does not meet the criteria to be considered as having endocrine

disrupting properties according to the criteria set out in either Regulation (EC)

No. 1907/2006 or Regulation (EC) No 1272/2008.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name

n-Butyl acetate Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas*Age: 31 to 32 days; <u>Size</u>: 21.6 mm; <u>Weight</u>: 0.175 g

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18000 μg/l [96 hours] Effect: Mortality

Acute - LC50 - Marine water

Crustaceans - Brine shrimp - Artemia salina

32 mg/l [48 hours]

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Result

Methylisobutylketone

Effect: Mortality

Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas* Age: 29 days; <u>Size</u>: 21 mm; <u>Weight</u>: 0.141 g

505000 μg/l [96 hours] Effect: Mortality

Chronic - NOEC - Fresh water

Daphnia - Water flea - Daphnia magna

78 mg/l [21 days] Effect: Behavior

Chronic - NOEC - Fresh water

Fish - Fathead minnow - Pimephales promelas - Embryo

Age: <24 hours 168 mg/l [33 days] Effect: Mortality

iso-butanol Acute - LC50 - Fresh water

Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss

Weight: 1.67 g

1330000 µg/l [96 hours]

Effect: Mortality

Acute - LC50 - Marine water

Crustaceans - Brine shrimp - Artemia salina

600 mg/l [48 hours] Effect: Mortality

Acute - LC50 - Fresh water

Daphnia - Water flea - Daphnia magna

10000 μg/l [48 hours] Effect: Mortality

Acute - LC50 - Fresh water

Fish - Guppy - *Poecilia reticulata*Age: 4 to 12 months; <u>Size</u>: 2 to 10 cm

5600 ppm [96 hours]
Effect: Mortality

Chronic - NOEC - Marine water

Algae - Green algae - Ulva pertusa

4.95 mg/l [96 hours] Effect: Reproduction

Acute - EC50 - Marine water

Algae - Green algae - Ulva pertusa

20.565 mg/l [96 hours] Effect: Reproduction

Chronic - NOEC - Fresh water

Crustaceans - Daphnia - Daphniidae

0.016 ml/l [21 days] Effect: Population

Chronic - NOEC - Marine water

Fish - Threespine stickleback - Gasterosteus aculeatus -

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Larvae
Age: 7 days
5 µg/l [42 days]
Effect: Growth

Acute - LC50 - Fresh water

Fish - Fathead minnow - Pimephales promelas

Butan-1-ol

acetone

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Age: 33 days; Size: 20.6 mm; Weight: 0.119 g

1730000 µg/l [96 hours]

Effect: Mortality

Acute - EC50 - Fresh water

Daphnia - Water flea - Daphnia magna

Age: 6 to 24 hours 1983000 μg/l [48 hours] Effect: Intoxication

Toluene

Acute - LC50 - Fresh water

Fish - Coho salmon, silver salmon - Oncorhynchus kisutch - Fry

Weight: 1 g

5500 µg/l [96 hours] Effect: Mortality

Acute - EC50 - Fresh water

Algae - Green algae - Pseudokirchneriella subcapitata

12500 µg/l [72 hours]

Effect: Growth

Chronic - NOEC - Fresh water

Daphnia - Water flea - Daphnia magna

Age: ≤24 hours 1000 µg/l [21 days] Effect: Reproduction

Acute - EC50 - Fresh water

Daphnia - Water flea - Daphnia magna - Neonate

Age: ≤24 hours 5.56 mg/l [48 hours] Effect: Intoxication

Formaldehyde

Acute - EC50 - Fresh water

Daphnia - Water flea - Daphnia pulex - Neonate

Age: <24 hours 5800 μg/l [48 hours] Effect: Intoxication

Acute - EC50 - Marine water

Algae - Green algae - Ulva pertusa

0.788 mg/l [96 hours] Effect: Reproduction

Acute - LC50 - Fresh water

US EPA

Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss

1.41 ppm [96 hours] <u>Effect</u>: Mortality

Chronic - NOEC - Fresh water

Fish - Chinook salmon - Oncorhynchus tshawytscha - Egg

953.9 ppm [43 days] Effect: Mortality

Chronic - NOEC - Marine water

Algae - Haptophyte - Isochrysis galbana - Exponential growth

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phase

Age: 4 to 5 days 0.005 mg/l [96 hours] Effect: Population

Conclusion/Summary [Product] : Not available.

12.2 Persistence and degradability

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Product/ingredient name

Result

so-butanol

74% [28 days] - Readily

Conclusion/Summary [Product] : Not available.

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

12.3 Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|---------------------------------|--------|-----|-----------|
| <mark>ଜ-</mark> Butyl acetate | 2.3 | - | Low |
| Methylisobutylketone | 1.9 | - | Low |
| 1-Methoxy 2-propanol | <1 | - | Low |
| iso-butanol | 1 | - | Low |
| acetone | -0.23 | - | Low |
| Butan-1-ol | 1 | - | Low |
| 2-Methoxy-1-methylethyl acetate | 1.2 | - | Low |
| Toluene | 2.73 | 90 | Low |

12.4 Mobility in soil

Soil/water partition coefficient

| Product/ingredient name | logKoc | Koc |
|---------------------------------|--------|---------|
| -Butyl acetate | 1.52 | 33.2139 |
| Methylisobutylketone | 1.61 | 40.9047 |
| 1-Methoxy 2-propanol | 1.02 | 10.447 |
| iso-butanol | 1.08 | 12.0246 |
| acetone | 0.56 | 3.6548 |
| Butan-1-ol | 0.51 | 3.22078 |
| 2-Methoxy-1-methylethyl acetate | 0.36 | 2.31363 |
| Toluene | 2.07 | 117.115 |

Results of PMT and vPvM assessment

| Product/ingredient name | PMT | P | M | T | vPvM | νP | vM |
|---------------------------------|-----|----|----|----|------|----|----|
| r-Butyl acetate | No | No | No | No | No | No | No |
| Methylisobutylketone | No | No | No | No | No | No | No |
| 1-Methoxy 2-propanol | No | No | No | No | No | No | No |
| iso-butanol | No | No | No | No | No | No | No |
| acetone | No | No | No | No | No | No | No |
| Butan-1-ol | No | No | No | No | No | No | No |
| 2-Methoxy-1-methylethyl acetate | No | No | No | No | No | No | No |
| Toluene | No | No | No | No | No | No | No |
| Formaldehyde | No | No | No | No | No | No | No |

Mobility : Not available.

: The product does not meet the criteria to be considered as a PMT or vPvM. **Conclusion/Summary**

12.5 Results of PBT and vPvB assessment Regulation (EC) No. 1907/2006 [REACH]

| Product/ingredient name | PBT | P | В | Т | vPvB | νP | vB |
|---------------------------------|-----|----|----|----|------|----|----|
| <mark>ଜ-</mark> Butyl acetate | No | No | No | No | No | No | No |
| Methylisobutylketone | No | No | No | No | No | No | No |
| 1-Methoxy 2-propanol | No | No | No | No | No | No | No |
| iso-butanol | No | No | No | No | No | No | No |
| acetone | No | No | No | No | No | No | No |
| Butan-1-ol | No | No | No | No | No | No | No |
| 2-Methoxy-1-methylethyl acetate | No | No | No | No | No | No | No |

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| Toluene | No |
|--------------|----|----|----|----|----|----|----|
| Formaldehyde | No |

Regulation (EC) No. 1272/2008 [CLP]

| Product/ingredient name | PBT | P | В | Т | vPvB | νP | vB | |
|---------------------------------|-----|----|----|----|------|----|----|--|
| Butyl acetate | No | No | No | No | No | No | No | |
| Methylisobutylketone | No | No | No | No | No | No | No | |
| 1-Methoxy 2-propanol | No | No | No | No | No | No | No | |
| iso-butanol | No | No | No | No | No | No | No | |
| acetone | No | No | No | No | No | No | No | |
| Butan-1-ol | No | No | No | No | No | No | No | |
| 2-Methoxy-1-methylethyl acetate | No | No | No | No | No | No | No | |
| Toluene | No | No | No | No | No | No | No | |
| Formaldehyde | No | No | No | No | No | No | No | |

Conclusion/Summary **Regulation (EC) No. 1272/2008** [CLP]

The product does not meet the criteria to be considered as a PBT or vPvB.

12.6 Endocrine disrupting properties

Not available.

Conclusion/Summary [Product]

: The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

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.

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SECTION 14: Transport information

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

user

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

the event of an accident or spillage.

14.7 Maritime transport in bulk according to IMO

instruments

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

SECTION 15: Regulatory information

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

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

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

| Product/ingredient name | % | Designation [Usage] |
|-------------------------|------|---------------------|
| C EMAILLACK FM 3021-15 | ≥90 | 3 |
| | | 28 |
| Toluene | <1 | 48 |
| Formaldehyde | ≤0.3 | 28 |
| | | 72 |

Labelling : Restricted to professional users.

Other EU regulations

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Industrial emissions (integrated pollution prevention and control) -

Industrial emissions (integrated pollution

: Not listed

: Listed

prevention and control) -Water

Explosive precursors

: This product is regulated by Regulation (EU) 2019/1148. All suspicious transactions,

and significant disappearances and thefts should be reported to the relevant

national contact point.

Ozone depleting substances (EU 2024/590)

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

: Category 2 VbF class : Permitted. Limitation of the use of

organic solvents

Belgium

Czech Republic

Storage code : \[\]

Denmark

: 14 Fire class **Executive Order No. 1795/2015**

Ingredient name **Annex I Section A Annex I Section B** Listed Muta. 2, H341 Formaldehyde Carc. 1B, H350 Methylisobutylketone Carc. 2, H351

5-3 **MAL-code**

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.

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MAL-code: 5-3

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

Air-supplied full mask must be worn.

When using scraper or knife, brush, roller, etc, for pre- and post-treatments in cabins or booths of the existing* facility type, if the operator is inside the spray zone. During downtimes, cleaning and repair in closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents.

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

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

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

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

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



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

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

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

*See Regulations.

Low-boiling liquids

: This product contains low-boiling point liquids. Any respiratory protective equipment should be air-fed.

Restrictions on use

: Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At Work.

List of undesirable substances

Not listed

Carcinogenic waste

: Maste containers must be labeled: Contains a substance or substances regulated by Danish working environment legislation on cancer risks.

Finland France

Social Security Code, Articles L 461-1 to L 461-7 : n-Butyl acetate **RG 84** Methylisobutylketone **RG 84 RG 84** 1-Methoxy 2-propanol **RG 84** iso-butanol acetone RG 84 Butan-1-ol **RG 84** 2-Methoxy-1-methylethyl acetate **RG 84**

Toluene RG 4bis, RG 84

Formaldehyde RG 43, RG 43bis, RG 84

Reinforced medical surveillance

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

Germany

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Storage class (TRGS 510) : 3

Hazardous incident ordinance

This product is controlled under the Germany Hazardous Incident Ordinance.

Danger criteria

| Category | Reference number |
|-------------|------------------|
| ₱ 5c | 1.2.5.3 |

Hazard class for water

Technical instruction on air quality control (TA Luft)

| Number [Class] | Description | % |
|--------------------------|-------------------------|------|
| 5 .2.5 | Organic substances | 99.8 |
| 5.2.5 [I] | Organic substances | 54.8 |
| 5.2.7.1.1 [Formaldehyde] | Carcinogenic substances | 0.2 |

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

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)

Switzerland

VOC content : VOC (w/w): 56.3%

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

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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

: ATE = Acute Toxicity Estimate

acronyms

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

1272/2008]

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

EUH statement = CLP-specific Hazard statement

N/A = Not available

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

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

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

| Classification | Justification |
|--------------------|-----------------------|
| Flam. Liq. 2, H225 | On basis of test data |
| Eye Dam. 1, H318 | Calculation method |
| Skin Sens. 1, H317 | Calculation method |
| Carc. 1B, H350 | Calculation method |
| STOT SE 3, H336 | Calculation method |

Full text of abbreviated H statements

| · un tokt of u | DOTO VILLOU IT OLILO MONTO |
|----------------|--|
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H341 | Suspected of causing genetic defects. |
| H350 | May cause cancer. |
| H351 | Suspected of causing cancer. |
| H361d | Suspected of damaging the unborn child. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
| | |

Full text of classifications [CLP/GHS]

| Acute Tox. 3 Acute Tox. 4 | ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 |
|------------------------------|---|
| Asp. Tox. 1 | ASPIRATION HAZARD - Category 1 |
| Carc. 1B | CARCINOGENICITY - Category 1B |
| 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 |
| Muta. 2 | GERM CELL MUTAGENICITY - Category 2 |
| Repr. 2 | REPRODUCTIVE TOXICITY - Category 2 |
| Skin Corr. 1B | SKIN CORROSION/IRRITATION - Category 1B |
| Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2 |
| Skin Sens. 1 | SKIN SENSITISATION - Category 1 |
| | |

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SECTION 16: Other information

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

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Notice to reader

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

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