

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

1.1. Product identifier

Product form : Mixture
Product name : GET Plasti Dip UV Red
Product code : GETF954154C1-UV
Product group : Trade product
UFI :

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Coating Solution

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer

Plasti Dip International, Inc.
3920 Pheasant Ridge Drive
Blaine, MN 55449
Phone - (763) 785-2156

Distributor

Global Express
7 Indian Path
Millstone, NJ 08535
(732) 977-0605

EU Importer of Record

PLASTIDIP UK LTD, Unit 1,
Harvesting Lane, East Meon,
Hampshire, GU32 1QR,
United Kingdom.

1.4. Emergency telephone number

Manufacturer Emergency number

CHEMTREC: 1-800-424-9300 (US);
+1 703-741-5970 (International)

Distributor Emergency Number

CHEMTREC: 1-800-424-9300 (US);
+1 703-741-5970 (International)

Importer Emergency Number

CHEMTREC: 1-800-424-9300 (US);
+1 703-741-5970 (International)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Mixtures/Substances: SDS EU > 2015: According to Regulation (EU) 2015/830, 2020/878 (REACH Annex II)

| | |
|--|------|
| Flammable liquids, Category 2 | H225 |
| Skin corrosion/irritation, Category 2 | H315 |
| Serious eye damage/eye irritation, Category 2 | H319 |
| Skin sensitisation, Category 1 | H317 |
| Reproductive toxicity, Category 2 | H361 |
| Specific target organ toxicity – Single exposure, Category 3, Narcosis | H336 |
| Specific target organ toxicity – Repeated exposure, Category 2 | H373 |
| Aspiration hazard, Category 1 | H304 |
| Hazardous to the aquatic environment – Chronic Hazard, Category 2 | H411 |

Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :



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| | |
|--------------------------------|---|
| Signal word (CLP) | : Danger |
| Contains | : Heptane, Methyl Ethyl Ketone, Petroleum Distillates |
| Hazard statements (CLP) | : H225 - Highly flammable liquid and vapour. H304 - May be fatal if swallowed and enters airways. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness. H361 - Suspected of damaging fertility or the unborn child. H373 - May cause damage to organs through prolonged or repeated exposure. H411 - Toxic to aquatic life with long lasting effects. |
| Precautionary statements (CLP) | : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 – Do not breathe dust/fume/gas/mist/vapours/spray. P273 – Avoid release into the environment. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER, doctor. P403+P235 – Store in a well-ventilated place. Keep cool. P501 - Dispose of contents to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. |

2.3. Other hazards

The mixture contains Methyl ethyl ketone (CAS#78-93-3), which is identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605, at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|--|---------|---|
| Naphtha, petroleum, hydrotreated light | CAS-No.: 64742-49-0 EC-No.: 265-151-9 EC Index-No.: 649-328-00-1 | 30 – 60 | Carc. 1B, H350 Muta. 1B, H340 Asp. Tox. 1, H304 |
| Distillates, petroleum, light distillate hydrotreating process, low-boiling | CAS-No.: 68410-97-9 EC-No.: 270-093-2 EC Index-No.: 649-332-00-3 | 30 – 60 | Muta. 1B, H340 Carc. 1B, H350 Asp. Tox. 1, H304 |
| Solvent naphtha, petroleum, light aliphatic | CAS-No.: 64742-89-8 EC-No.: 265-192-2 EC Index-No.: 649-267-00-0 | 30 – 60 | Muta. 1B, H340 Carc. 1B, H350 Asp. Tox. 1, H304 |
| Xylene (o-, m-, p- isomers) | CAS-No.: 1330-20-7 EC-No.: 215-535-7 EC Index-No.: 601-022-00-9 | 10 – 30 | Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 |
| n-Heptane | CAS-No.: 142-82-5 EC-No.: 205-563-8 EC Index-No.: 601-008-00-2 | 7 – 13 | Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Methyl ethyl ketone | CAS-No.: 78-93-3 EC-No.: 201-159-0 EC Index-No.: 606-002-00-3 | 7 – 13 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 |

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| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---------|---|
| Ethylbenzene | CAS-No.: 100-41-4 EC-No.: 202-849-4 EC Index-No.: 601-023-00-4 | 1 – 5 | Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |
| Octane | CAS-No.: 111-65-9 EC-No.: 203-892-1 EC Index-No.: 601-009-00-8 | 1 – 5 | Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Cyclohexane | CAS-No.: 110-82-7 EC-No.: 203-806-2 EC Index-No.: 601-017-00-1 | 1 – 5 | Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Stoddard solvent | CAS-No.: 8052-41-3 EC-No.: 232-489-3 EC Index-No.: 649-345-00-4 | 0.1 – 1 | Carc. 1B, H350 Muta. 1B, H340 Asp. Tox. 1, H304 STOT RE 1, H372 |
| Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate | CAS-No.: 41556-26-7 EC-No.: 255-437-1 | 0.1 – 1 | Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Cumene | CAS-No.: 98-82-8 EC-No.: 202-704-5 EC Index-No.: 601-024-00-X | 0.1 – 1 | Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H335 Aquatic Chronic 2, H411 |
| Hexane | CAS-No.: 110-54-3 EC-No.: 203-777-6 EC Index-No.: 601-037-00-0 | 0.1 – 1 | Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361f STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |
| Decanedioic acid, methyl 1,2,2,6,6-pentamethyl-4-piperidiny ester | CAS-No.: 82919-37-7 EC-No.: 280-060-4 | 0.1 – 1 | Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |

Specific concentration limits

| Name | Product identifier | Specific concentration limits |
|--------|--|-------------------------------|
| Hexane | CAS-No.: 110-54-3 EC-No.: 203-777-6 EC Index-No.: 601-037-00-0 | (5 ≤C ≤ 100) STOT RE 2, H373 |

Full text of H- and EUH-statements: see section 16

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SECTION 4: First Aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| First-aid measures general | : If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person. |
| First-aid measures after inhalation | : IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention. If breathing is difficult, supply oxygen. If breathing has stopped, give artificial respiration. |
| First-aid measures after skin contact | : IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation develops or persists, get medical attention immediately. |
| First-aid measures after eye contact | : IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Continue rinsing if pain, blinking, or irritation develops or persists, get medical attention. Continue rinsing. |
| First-aid measures after ingestion | : IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison control center or medical professional. Get medical attention immediately. |

4.2. Most important symptoms and effects, both acute and delayed

| | |
|-------------------------------------|--|
| Symptoms/effects | : May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May cause drowsiness or dizziness. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. |
| Symptoms/effects after inhalation | : May cause drowsiness or dizziness. |
| Symptoms/effects after skin contact | : Causes skin irritation. May cause an allergic skin reaction. |
| Symptoms/effects after eye contact | : Causes serious eye irritation. |
| Symptoms/effects after ingestion | : May be fatal if swallowed and enters airways. |
| Chronic symptoms | : May cause damage to organs through prolonged or repeated exposure. Suspected of damaging fertility or the unborn child. |

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|------------------------------|---------------------------------------|
| Suitable extinguishing media | : Foam. Carbon dioxide. Dry chemical. |
|------------------------------|---------------------------------------|

5.2. Special hazards arising from the substance or mixture

| | |
|--|---|
| Fire hazard | : Highly flammable liquid and vapour. |
| Explosion hazard | : Heating may cause an explosion. |
| Reactivity in case of fire | : None known. |
| Hazardous decomposition products in case of fire | : Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases, including carbon oxides and other organic compounds will be evolved when this material undergoes thermal degradation. |

5.3. Advice for firefighters

| | |
|--------------------------------|---|
| Precautionary measures fire | : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| Firefighting instructions | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not dispose of fire-fighting water in the environment. Prevent human exposure to fire, fumes, smoke and products of combustion. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. |
| Other information | : This material is flammable and may be ignited by heat, sparks, or static electricity. |

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate area. Ventilate area. Keep upwind. Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection.

6.1.1. For non-emergency personnel

Protective equipment : Wear Protective equipment as described in Section 8.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air respirator, in case of emergency.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Prevent entry to sewers and public waters.

Methods for cleaning up : Exclude sources of ignition and ventilate the area. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4. Reference to other sections

See Sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Handle in accordance with good industrial hygiene and safety procedures. Use only in well-ventilated areas. Avoid contact with skin and eyes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Keep away from sources of ignition - No smoking.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep the container tightly closed. Store in a dry, cool and well-ventilated place. Keep away from ignition sources.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

Distillates, petroleum, light distillate hydrotreating process, low-boiling (68410-97-9)

EU - Biological Limit Value (BLV)

| | |
|--------|----------------------|
| Remark | OELs not established |
|--------|----------------------|

United Kingdom - Occupational Exposure Limits

| | |
|--------------|----------------------|
| Remark (WEL) | OELs not established |
|--------------|----------------------|

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| Naphtha, petroleum, hydrotreated light (64742-49-0) | |
|--|--|
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 500 mg/m ³ (extraction) |
| NDSCh (OEL STEL) | 1500 mg/m ³ (extraction (Benzin)) |
| Octane (111-65-9) | |
| Austria - Occupational Exposure Limits | |
| MAK (OEL TWA) | 1400 mg/m ³ (Octane all isomers) |
| MAK (OEL TWA) [ppm] | 300 ppm (Octane all isomers) |
| MAK (OEL STEL) | 5600 mg/m ³ (Octane all isomers) |
| MAK (OEL STEL) [ppm] | 1200 ppm (Octane all isomers) |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 1420 mg/m ³ |
| OEL TWA | 300 ppm |
| OEL STEL | 1775 mg/m ³ |
| OEL STEL | 375 ppm |
| Bulgaria - Occupational Exposure Limits | |
| OEL TWA | 1450 mg/m ³ |
| OEL STEL | 1800 mg/m ³ |
| Denmark - Occupational Exposure Limits | |
| OEL TWA [1] | 935 mg/m ³ |
| OEL TWA [2] | 200 ppm |
| OEL STEL | 1870 mg/m ³ |
| OEL STEL | 400 ppm |
| Finland - Occupational Exposure Limits | |
| HTP (OEL TWA) [1] | 1400 mg/m ³ (Octane) |
| HTP (OEL TWA) [2] | 300 ppm (Octane) |
| HTP (OEL STEL) | 1800 mg/m ³ |
| HTP (OEL STEL) [ppm] | 380 ppm |
| France - Occupational Exposure Limits | |
| VME (OEL TWA) | 1450 mg/m ³ |
| VME (OEL TWA) [ppm] | 300 ppm |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) [1] | 2400 mg/m ³ |
| AGW (OEL TWA) [2] | 500 ppm |
| AGW (OEL C) | 4800 mg/m ³ |
| AGW (OEL C) [ppm] | 1000 ppm |
| Greece - Occupational Exposure Limits | |
| OEL TWA | 2350 mg/m ³ |
| OEL TWA | 500 ppm |
| OEL STEL | 2350 mg/m ³ |

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| Octane (111-65-9) | |
|--|---|
| OEL STEL | 500 ppm |
| Hungary - Occupational Exposure Limits | |
| CK (OEL STEL) | 4700 mg/m ³ |
| Ireland - Occupational Exposure Limits | |
| OEL TWA [1] | 1450 mg/m ³ |
| OEL TWA [2] | 300 ppm |
| OEL STEL | 4350 mg/m ³ (calculated) |
| OEL STEL | 900 ppm (calculated) |
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 1000 mg/m ³ |
| NDSCh (OEL STEL) | 1800 mg/m ³ |
| Romania - Occupational Exposure Limits | |
| OEL TWA | 1500 mg/m ³ |
| OEL TWA | 322 ppm |
| OEL STEL | 2000 mg/m ³ |
| OEL STEL | 429 ppm |
| Slovakia - Occupational Exposure Limits | |
| NPHV (OEL C) | 1400 mg/m ³ (Octanes) |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) [1] | 1420 mg/m ³ |
| VLA-ED (OEL TWA) [2] | 300 ppm |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) [1] | 1200 mg/m ³ |
| WEL TWA (OEL TWA) [2] | 210 ppm |
| Norway - Occupational Exposure Limits | |
| Grønseverdi (OEL TWA) [1] | 725 mg/m ³ |
| Grønseverdi (OEL TWA) [2] | 150 ppm |
| Korttidsverdi (OEL STEL) | 906.25 mg/m ³ (value calculated) |
| Korttidsverdi (OEL STEL) [ppm] | 187.5 ppm (value calculated) |
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) [1] | 1400 mg/m ³ |
| MAK (OEL TWA) [2] | 300 ppm |
| KZGW (OEL STEL) | 2800 mg/m ³ |
| KZGW (OEL STEL) [ppm] | 600 ppm |
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Octane, all isomers |
| ACGIH OEL TWA [ppm] | 300 ppm |
| Remark (ACGIH) | TLV® Basis: URT irr |
| Regulatory reference | ACGIH 2023 |

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| n-Heptane (142-82-5) | |
|---|------------------------|
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| IOEL TWA | 2085 mg/m ³ |
| IOEL TWA [ppm] | 500 ppm |
| Austria - Occupational Exposure Limits | |
| MAK (OEL TWA) | 2000 mg/m ³ |
| MAK (OEL TWA) [ppm] | 500 ppm |
| MAK (OEL STEL) | 8000 mg/m ³ |
| MAK (OEL STEL) [ppm] | 2000 ppm |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 1664 mg/m ³ |
| OEL TWA | 400 ppm |
| OEL STEL | 2085 mg/m ³ |
| OEL STEL | 500 ppm |
| Denmark - Occupational Exposure Limits | |
| OEL TWA [1] | 820 mg/m ³ |
| OEL TWA [2] | 200 ppm |
| OEL STEL | 1640 mg/m ³ |
| OEL STEL | 400 ppm |
| Finland - Occupational Exposure Limits | |
| HTP (OEL TWA) [1] | 1200 mg/m ³ |
| HTP (OEL TWA) [2] | 300 ppm |
| HTP (OEL STEL) | 2100 mg/m ³ |
| HTP (OEL STEL) [ppm] | 500 ppm |
| France - Occupational Exposure Limits | |
| VME (OEL TWA) | 1668 mg/m ³ |
| VME (OEL TWA) [ppm] | 400 ppm |
| VLE (OEL C/STEL) | 2100 mg/m ³ |
| VLE (OEL C/STEL) [ppm] | 500 ppm |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) [1] | 2100 mg/m ³ |
| AGW (OEL TWA) [2] | 500 ppm |
| AGW (OEL C) | 2100 mg/m ³ |
| AGW (OEL C) [ppm] | 500 ppm |
| Ireland - Occupational Exposure Limits | |
| OEL TWA [1] | 2085 mg/m ³ |
| OEL TWA [2] | 500 ppm |
| Italy - Occupational Exposure Limits | |
| OEL TWA | 2085 mg/m ³ |
| OEL TWA | 500 ppm |

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| n-Heptane (142-82-5) | |
|---|--|
| Latvia - Occupational Exposure Limits | |
| OEL TWA | 350 mg/m ³ |
| OEL TWA | 85 ppm |
| OEL STEL | 2085 mg/m ³ |
| OEL STEL | 500 ppm |
| Netherlands - Occupational Exposure Limits | |
| TGG-8u (OEL TWA) | 1200 mg/m ³ |
| TGG-15min (OEL STEL) | 1600 mg/m ³ |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) [2] | 500 ppm |
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Heptane, isomers (n-Heptane) |
| ACGIH OEL TWA [ppm] | 400 ppm |
| ACGIH OEL STEL [ppm] | 500 ppm (listed under Heptane, all isomers) |
| Remark (ACGIH) | TLV® Basis: CNS impair; URT irr |
| Regulatory reference | ACGIH 2023 |
| Toluene (108-88-3) | |
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| IOEL TWA | 192 mg/m ³ |
| IOEL TWA [ppm] | 50 ppm |
| IOEL STEL | 384 mg/m ³ |
| IOEL STEL [ppm] | 100 ppm |
| Notes | Possibility of significant uptake through the skin |
| Austria - Occupational Exposure Limits | |
| MAK (OEL TWA) | 190 mg/m ³ |
| MAK (OEL TWA) [ppm] | 50 ppm |
| MAK (OEL STEL) | 380 mg/m ³ |
| MAK (OEL STEL) [ppm] | 100 ppm |
| Chemical category | Skin notation |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 77 mg/m ³ |
| OEL TWA | 20 ppm |
| OEL STEL | 384 mg/m ³ |
| OEL STEL | 100 ppm |
| Chemical category | Skin, Skin notation |
| Bulgaria - Occupational Exposure Limits | |
| OEL TWA | 192 mg/m ³ |
| OEL TWA | 50 ppm |
| OEL STEL | 384 mg/m ³ |

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| Toluene (108-88-3) | |
|--|--|
| OEL STEL | 100 ppm |
| Bulgaria - Biological limit values | |
| BLV | 1.6 mmol/mmol Creatinine Parameter: Hippuric acid - Medium: urine - Sampling time: at the end of exposure or end of work shift |
| Croatia - Occupational Exposure Limits | |
| GVI (OEL TWA) [1] | 192 mg/m ³ |
| GVI (OEL TWA) [2] | 50 ppm |
| KGVI (OEL STEL) | 384 mg/m ³ |
| KGVI (OEL STEL) [ppm] | 100 ppm |
| Chemical category | Skin notation |
| Croatia - Biological limit values | |
| BLV | 1 mg/l Parameter: Toluene - Medium: blood - Sampling time: at the end of the work shift 20 ppm Medium: final exhaled air - Sampling time: during exposure 2.5 g/g creatinine Parameter: Hippuric acid - Medium: urine - Sampling time: at the end of the work shift (calculated on the average Creatinine value of 1.2 g/L urine) 1 mg/g creatinine Parameter: o-Cresol - Medium: urine - Sampling time: at the end of the work shift (calculated on the average Creatinine value of 1.2 g/L urine) |
| Cyprus - Occupational Exposure Limits | |
| OEL TWA | 192 mg/m ³ |
| OEL TWA | 50 ppm |
| OEL STEL | 384 mg/m ³ |
| OEL STEL | 100 ppm |
| Chemical category | Skin-potential for cutaneous absorption |
| Czech Republic - Occupational Exposure Limits | |
| PEL (OEL TWA) | 200 mg/m ³ |
| Chemical category | Potential for cutaneous absorption |
| Czech Republic - Biological limit values | |
| BLV | 1.6 µmol/mmol Creatinine Parameter: o-Cresol - Medium: urine - Sampling time: end of shift (after hydrolysis) 1000 µmol/mmol Creatinine Parameter: Hippuric acid - Medium: urine - Sampling time: end of shift (exposure testing using the o-Cresol parameter to precisely measure Toluene exposure is needed if the value of Hippuric acid is between 1600 and 2500 mg/g of Creatinine, no additional testing is needed if the Hippuric acid value is >2500 mg/g of Creatinine as work exposure to Toluene will have highly exceeded the PEL value.) 1.5 mg/g creatinine Parameter: o-Cresol - Medium: urine - Sampling time: end of shift (after hydrolysis) 1600 mg/g creatinine Parameter: Hippuric acid - Medium: urine - Sampling time: end of shift (exposure testing using the o-Cresol parameter to precisely measure Toluene exposure is needed if the value of Hippuric acid is between 1600 and 2500 mg/g of Creatinine, no additional testing is needed if the Hippuric acid value is >2500 mg/g of Creatinine as work exposure to Toluene will have highly exceeded the PEL value.) |
| Denmark - Occupational Exposure Limits | |
| OEL TWA [1] | 94 mg/m ³ |
| OEL TWA [2] | 25 ppm |
| OEL STEL | 188 mg/m ³ |
| OEL STEL | 50 ppm |

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| Toluene (108-88-3) | |
|--|--|
| Chemical category | Potential for cutaneous absorption |
| Estonia - Occupational Exposure Limits | |
| OEL TWA | 192 mg/m ³ |
| OEL TWA | 50 ppm |
| OEL STEL | 384 mg/m ³ |
| OEL STEL | 100 ppm |
| Chemical category | Skin notation |
| Finland - Occupational Exposure Limits | |
| HTP (OEL TWA) [1] | 81 mg/m ³ |
| HTP (OEL TWA) [2] | 25 ppm |
| HTP (OEL STEL) | 380 mg/m ³ |
| HTP (OEL STEL) [ppm] | 100 ppm |
| Chemical category | Potential for cutaneous absorption |
| Finland - Biological limit values | |
| BLV | 500 nmol/L Parameter: Toluene - Medium: blood - Sampling time: in the morning after a working day |
| France - Occupational Exposure Limits | |
| VME (OEL TWA) | 76.8 mg/m ³ TWA [VME] (restrictive limit) |
| VME (OEL TWA) [ppm] | 20 ppm TWA [VME] (restrictive limit) |
| VLE (OEL C/STEL) | 384 mg/m ³ STEL [VLCT] (restrictive limit) |
| VLE (OEL C/STEL) [ppm] | 100 ppm STEL [VLCT] (restrictive limit) |
| Chemical category | Risk of cutaneous absorption |
| France - Biological limit values | |
| BLV | 20 µg/l Parameter: Toluene - Medium: blood - Sampling time: end of workweek (Semi-quantitative (ambiguous interpretation)) Parameter: Hippuric acid - Medium: urine - Sampling time: end of shift (per the Authority, the values for this substance must be decided and/or determined on a case by case basis. Guidance for the calculation of and interpretation of values is provided in the source) |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) [1] | 190 mg/m ³ |
| AGW (OEL TWA) [2] | 50 ppm |
| AGW (OEL C) | 760 mg/m ³ |
| AGW (OEL C) [ppm] | 200 ppm |
| Chemical category | Skin notation |
| Germany - Biological limit values (TRGS 903) | |
| BLV | 600 µg/l Parameter: Toluene - Medium: whole blood - Sampling time: immediately after exposure 75 µg/l Parameter: Toluene - Medium: urine - Sampling time: end of shift 1.5 mg/l Parameter: o-Cresol (after hydrolysis) - Medium: urine - Sampling time: for long-term exposures: at the end of the shift after several shifts 1.5 mg/l Parameter: o-Cresol (after hydrolysis) - Medium: urine - Sampling time: end of shift |

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| Toluene (108-88-3) | |
|---|---|
| Gibraltar - Occupational Exposure Limits | |
| OEL TWA | 192 mg/m ³ |
| OEL TWA | 50 ppm |
| OEL STEL | 384 mg/m ³ |
| OEL STEL | 100 ppm |
| Chemical category | Skin notation |
| Greece - Occupational Exposure Limits | |
| OEL TWA | 192 mg/m ³ |
| OEL TWA | 50 ppm |
| OEL STEL | 384 mg/m ³ |
| OEL STEL | 100 ppm |
| Chemical category | skin - potential for cutaneous absorption |
| Hungary - Occupational Exposure Limits | |
| AK (OEL TWA) | 190 |
| CK (OEL STEL) | 380 mg/m ³ |
| Chemical category | Potential for cutaneous absorption |
| Ireland - Occupational Exposure Limits | |
| OEL TWA [1] | 192 mg/m ³ |
| OEL TWA [2] | 50 ppm |
| OEL STEL | 384 mg/m ³ |
| OEL STEL | 100 ppm |
| Chemical category | Potential for cutaneous absorption |
| Italy - Occupational Exposure Limits | |
| OEL TWA | 192 mg/m ³ |
| OEL TWA | 50 ppm |
| Chemical category | skin - potential for cutaneous absorption |
| Latvia - Occupational Exposure Limits | |
| OEL TWA | 50 mg/m ³ |
| OEL TWA | 14 ppm |
| OEL STEL | 150 mg/m ³ |
| OEL STEL | 40 ppm |
| Chemical category | skin - potential for cutaneous exposure |
| Latvia - Biological limit values | |
| BEI | 1.6 g/g creatinine Parameter: Hippuric acid - Medium: urine - Sampling time: end of shift 0.05 mg/l Parameter: Toluene - Medium: blood - Sampling time: end of shift |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 192 mg/m ³ |
| IPRV (OEL TWA) [ppm] | 50 ppm |
| TPRV (OEL STEL) | 384 mg/m ³ |

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| Toluene (108-88-3) | |
|---|--|
| TPRV (OEL STEL) [ppm] | 100 ppm |
| Chemical category | Reproductive toxin, Skin notation |
| Luxembourg - Occupational Exposure Limits | |
| OEL TWA | 192 mg/m ³ |
| OEL TWA | 50 ppm |
| OEL STEL | 384 mg/m ³ |
| OEL STEL | 100 ppm |
| Chemical category | Possibility of significant uptake through the skin |
| Malta - Occupational Exposure Limits | |
| OEL TWA | 192 mg/m ³ |
| OEL TWA | 50 ppm |
| OEL STEL | 384 mg/m ³ |
| OEL STEL | 100 ppm |
| Chemical category | Possibility of significant uptake through the skin |
| Netherlands - Occupational Exposure Limits | |
| TGG-8u (OEL TWA) | 150 mg/m ³ |
| TGG-8u (OEL TWA) [ppm] | 39 ppm |
| TGG-15min (OEL STEL) | 384 mg/m ³ |
| TGG-15min (OEL STEL) [ppm] | 100 ppm |
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 100 mg/m ³ |
| NDSch (OEL STEL) | 200 mg/m ³ |
| Portugal - Occupational Exposure Limits | |
| OEL TWA | 192 mg/m ³ (indicative limit value) |
| OEL TWA | 50 ppm (indicative limit value) |
| OEL STEL | 384 mg/m ³ (indicative limit value) |
| OEL STEL | 100 ppm (indicative limit value) |
| Chemical category | A4 - Not Classifiable as a Human Carcinogen, skin - potential for cutaneous exposure indicative limit value |
| Romania - Occupational Exposure Limits | |
| OEL TWA | 192 mg/m ³ |
| OEL TWA | 50 ppm |
| OEL STEL | 384 mg/m ³ |
| OEL STEL | 100 ppm |
| Chemical category | Skin notation |
| Romania - Biological limit values | |
| BLV | 2 g/l Parameter: Hippuric acid - Medium: urine - Sampling time: end of shift 3 mg/l Parameter: o-Cresol - Medium: urine - Sampling time: end of shift |
| Slovakia - Occupational Exposure Limits | |
| NPHV (OEL TWA) [1] | 192 mg/m ³ |

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| Toluene (108-88-3) | |
|--|---|
| NPHV (OEL TWA) [2] | 50 ppm |
| NPHV (OEL C) | 384 mg/m ³ |
| Chemical category | Potential for cutaneous absorption |
| Slovakia - Biological limit values | |
| BLV | 600 µg/l Parameter: Toluene - Medium: blood - Sampling time: end of exposure or work shift 1.5 mg/l Parameter: o-Cresol - Medium: urine - Sampling time: after all work shifts (for long-term exposure) 1.5 mg/l Parameter: o-Cresol - Medium: urine - Sampling time: end of exposure or work shift 1600 mg/g creatinine Parameter: Hippuric acid - Sampling time: end of exposure or work shift |
| Slovenia - Occupational Exposure Limits | |
| OEL TWA | 192 mg/m ³ |
| OEL TWA | 50 ppm |
| OEL STEL | 384 mg/m ³ |
| OEL STEL | 100 ppm |
| Chemical category | Category 2, Potential for cutaneous absorption |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) [1] | 191 mg/m ³ |
| VLA-ED (OEL TWA) [2] | 50 ppm |
| VLA-EC (OEL STEL) | 384 mg/m ³ |
| VLA-EC (OEL STEL) [ppm] | 100 ppm |
| Chemical category | skin - potential for cutaneous absorption |
| Spain - Biological limit values | |
| BLV | 0.6 mg/l Parameter: o-Cresol - Medium: urine - Sampling time: end of shift 0.05 mg/l Parameter: Toluene - Medium: blood - Sampling time: start of last shift of workweek 0.08 mg/l Parameter: Toluene - Medium: urine - Sampling time: end of shift |
| Sweden - Occupational Exposure Limits | |
| NGV (OEL TWA) | 192 mg/m ³ |
| NGV (OEL TWA) [ppm] | 50 ppm |
| KTV (OEL STEL) | 384 mg/m ³ |
| KTV (OEL STEL) [ppm] | 100 ppm |
| Chemical category | Skin notation |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) [1] | 191 mg/m ³ |
| WEL TWA (OEL TWA) [2] | 50 ppm |
| WEL STEL (OEL STEL) | 384 mg/m ³ |
| WEL STEL (OEL STEL) [ppm] | 100 ppm |
| WEL chemical category | Potential for cutaneous absorption |

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| Toluene (108-88-3) | |
|---|--|
| Norway - Occupational Exposure Limits | |
| Grønseverdi (OEL TWA) [1] | 94 mg/m ³ |
| Grønseverdi (OEL TWA) [2] | 25 ppm |
| Korttidsverdi (OEL STEL) | 141 mg/m ³ (value calculated) |
| Korttidsverdi (OEL STEL) [ppm] | 37.5 ppm (value calculated) |
| Chemical category | Skin notation |
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) [1] | 190 mg/m ³ |
| MAK (OEL TWA) [2] | 50 ppm |
| KZGW (OEL STEL) | 760 mg/m ³ |
| KZGW (OEL STEL) [ppm] | 200 ppm |
| Chemical category | Skin notation, Category 2 reproductive toxin |
| Switzerland - Biological limit values | |
| BAT | 600 µg/l Parameter: Toluene - Medium: whole blood - Sampling time: end of shift 6.48 µmol/l Parameter: Toluene - Medium: whole blood - Sampling time: end of shift 2 g/g creatinine Parameter: Hippuric acid - Medium: urine - Sampling time: end of shift, and after several shifts (for long-term exposures) Parameter: Hippuric acid - Medium: urine - Sampling time: end of shift, and after several shifts (for long-term exposures) 0.5 mg/l Parameter: o-Cresol - Medium: urine - Sampling time: end of shift, and after several shifts (for long-term exposures) 4.62 µmol/l Parameter: o-Cresol - Medium: urine - Sampling time: end of shift, and after several shifts (for long-term exposures) 75 µg/l Parameter: Toluol - Medium: urine - Sampling time: end of shift |
| Turkey - Occupational Exposure Limits | |
| OEL TWA | 192 mg/m ³ |
| OEL TWA | 50 ppm |
| OEL STEL | 384 mg/m ³ |
| OEL STEL | 100 ppm |
| Chemical category | Skin notation |
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Toluene |
| ACGIH OEL TWA [ppm] | 20 ppm |
| Remark (ACGIH) | TLV® Basis: CNS, visual & hearing impair; female repro system eff; pregnancy loss. Notations: OTO; A4 (Not classifiable as a Human Carcinogen); BEI |
| ACGIH chemical category | Not Classifiable as a Human Carcinogen |
| Regulatory reference | ACGIH 2023 |
| USA - ACGIH - Biological Exposure Indices | |
| Local name | TOLUENE |
| BEI | 0.02 mg/l Parameter: Toluene - Medium: blood - Sampling time: prior to last shift of workweek 0.03 mg/l Parameter: Toluene - Medium: urine - Sampling time: end of shift 0.3 mg/g creatinine Parameter: o-Cresol with hydrolysis - Medium: urine - Sampling time: end of shift (background) |

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| Toluene (108-88-3) | |
|---|------------------------|
| Regulatory reference | ACGIH 2023 |
| Benzene (71-43-2) | |
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| IOEL TWA | 3.25 mg/m ³ |
| IOEL TWA [ppm] | 1 ppm |
| Austria - Occupational Exposure Limits | |
| MAK (OEL TWA) | 3.2 mg/m ³ |
| MAK (OEL TWA) [ppm] | 1 ppm |
| MAK (OEL STEL) | 12.8 mg/m ³ |
| MAK (OEL STEL) [ppm] | 4 ppm |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 3.25 mg/m ³ |
| OEL TWA | 1 ppm |
| Denmark - Occupational Exposure Limits | |
| OEL TWA [1] | 1.6 mg/m ³ |
| OEL TWA [2] | 0.5 ppm |
| OEL STEL | 3.2 mg/m ³ |
| OEL STEL | 1 ppm |
| Finland - Occupational Exposure Limits | |
| HTP (OEL TWA) [1] | 3.25 mg/m ³ |
| HTP (OEL TWA) [2] | 1 ppm |
| OEL TWA | 3.25 mg/m ³ |
| OEL TWA | 1 ppm |
| France - Occupational Exposure Limits | |
| VME (OEL TWA) | 3.25 mg/m ³ |
| VME (OEL TWA) [ppm] | 1 ppm |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) [1] | 1.9 mg/m ³ |
| AGW (OEL TWA) [2] | 0.6 ppm |
| AGW (OEL C) | 15.2 mg/m ³ |
| AGW (OEL C) [ppm] | 4.8 ppm |
| Hungary - Occupational Exposure Limits | |
| CK (OEL STEL) | 3 mg/m ³ |
| Ireland - Occupational Exposure Limits | |
| OEL TWA [1] | 3 mg/m ³ |
| OEL TWA [2] | 1 ppm |
| Italy - Occupational Exposure Limits | |
| OEL TWA | 3.25 mg/m ³ |
| OEL TWA | 1 ppm |

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| Benzene (71-43-2) | |
|---|---|
| Latvia - Occupational Exposure Limits | |
| OEL TWA | 3.25 mg/m ³ |
| OEL TWA | 1 ppm |
| Netherlands - Occupational Exposure Limits | |
| TGG-8u (OEL TWA) | 3.25 mg/m ³ |
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 1.6 mg/m ³ |
| Romania - Occupational Exposure Limits | |
| OEL TWA | 3.25 mg/m ³ |
| OEL TWA | 1 ppm |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) [1] | 3.25 mg/m ³ |
| VLA-ED (OEL TWA) [2] | 1 ppm |
| Sweden - Occupational Exposure Limits | |
| NGV (OEL TWA) | 1.5 mg/m ³ |
| NGV (OEL TWA) [ppm] | 0.5 ppm |
| KTV (OEL STEL) | 9 mg/m ³ |
| KTV (OEL STEL) [ppm] | 3 ppm |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) [2] | 1 ppm |
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) [1] | 1.6 mg/m ³ |
| MAK (OEL TWA) [2] | 0.5 ppm |
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Benzene |
| ACGIH OEL TWA [ppm] | 0.5 ppm |
| ACGIH OEL STEL [ppm] | 2.5 ppm |
| Remark (ACGIH) | TLV® Basis: Leukemia. Notations: Skin; A1 (Confirmed Human Carcinogen); BEI |
| Regulatory reference | ACGIH 2023 |
| USA - ACGIH - Biological Exposure Indices | |
| Local name | BENZENE |
| BEI | 25 µg/g creatinine Parameter: S-Phenylmercapturic acid - Medium: urine - Sampling time: End of shift - Notations: B 500 µg/g creatinine Parameter: t,t-Muconic acid - Medium: urine - Sampling time: End of shift - Notations: B |
| Regulatory reference | ACGIH 2023 |
| Ethylbenzene (100-41-4) | |
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| IOEL TWA | 442 mg/m ³ |
| IOEL TWA [ppm] | 100 ppm |

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| Ethylbenzene (100-41-4) | |
|--|---|
| IOEL STEL | 884 mg/m ³ |
| IOEL STEL [ppm] | 200 ppm |
| Notes | Possibility of significant uptake through the skin |
| Austria - Occupational Exposure Limits | |
| MAK (OEL TWA) | 440 mg/m ³ |
| MAK (OEL TWA) [ppm] | 100 ppm |
| MAK (OEL STEL) | 880 mg/m ³ |
| MAK (OEL STEL) [ppm] | 200 ppm |
| Chemical category | Skin notation |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 442 mg/m ³ |
| OEL TWA | 100 ppm |
| OEL STEL | 551 mg/m ³ |
| OEL STEL | 125 ppm |
| Chemical category | Skin, Skin notation |
| Bulgaria - Occupational Exposure Limits | |
| OEL TWA | 435 mg/m ³ |
| OEL STEL | 545 mg/m ³ |
| Bulgaria - Biological limit values | |
| BLV | 2000 mg/g creatinine Parameter: Mandelic acid and Phenylglyoxylic acid - total - Medium: urine - Sampling time: at the end of exposure or end of work shift (possible significant absorption through the skin) |
| Croatia - Occupational Exposure Limits | |
| GVI (OEL TWA) [1] | 442 mg/m ³ |
| GVI (OEL TWA) [2] | 100 ppm |
| KGVI (OEL STEL) | 884 mg/m ³ |
| KGVI (OEL STEL) [ppm] | 200 ppm |
| Chemical category | Skin notation |
| Croatia - Biological limit values | |
| BLV | 1.5 mg/l Parameter: Ethylbenzene - Medium: blood - Sampling time: during exposure 1.5 g/g creatinine Parameter: Mandelic acid - Medium: urine - Sampling time: at the end of the work shift and at the end of the working week (calculated on the average Creatinine value of 1.2 g/L urine) |
| Cyprus - Occupational Exposure Limits | |
| OEL TWA | 442 mg/m ³ |
| OEL TWA | 100 ppm |
| OEL STEL | 884 mg/m ³ |
| OEL STEL | 200 ppm |
| Chemical category | Skin-potential for cutaneous absorption |
| Czech Republic - Occupational Exposure Limits | |
| PEL (OEL TWA) | 200 mg/m ³ |

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| Ethylbenzene (100-41-4) | |
|--|--|
| Chemical category | Potential for cutaneous absorption |
| Czech Republic - Biological limit values | |
| BLV | 1100 µmol/mmol Creatinine Parameter: Mandelic acid - Medium: urine - Sampling time: end of shift 1500 mg/g creatinine Parameter: Mandelic acid - Medium: urine - Sampling time: end of shift |
| Denmark - Occupational Exposure Limits | |
| OEL TWA [1] | 217 mg/m ³ |
| OEL TWA [2] | 50 ppm |
| OEL STEL | 434 mg/m ³ |
| OEL STEL | 100 ppm |
| Chemical category | Potential for cutaneous absorption |
| Estonia - Occupational Exposure Limits | |
| OEL TWA | 442 mg/m ³ |
| OEL TWA | 100 ppm |
| OEL STEL | 884 mg/m ³ |
| OEL STEL | 200 ppm |
| Chemical category | Skin notation, Sensitizer |
| Finland - Occupational Exposure Limits | |
| HTP (OEL TWA) [1] | 220 mg/m ³ |
| HTP (OEL TWA) [2] | 50 ppm |
| HTP (OEL STEL) | 880 mg/m ³ |
| HTP (OEL STEL) [ppm] | 200 ppm |
| Chemical category | Potential for cutaneous absorption |
| Finland - Biological limit values | |
| BLV | Parameter: Mandelic acid - Medium: urine - Sampling time: after the shift after a working week or exposure period |
| France - Occupational Exposure Limits | |
| VME (OEL TWA) | 88.4 mg/m ³ TWA [VME] (restrictive limit) |
| VME (OEL TWA) [ppm] | 20 ppm TWA [VME] (restrictive limit) |
| VLE (OEL C/STEL) | 442 mg/m ³ STEL [VLCT] (restrictive limit) |
| VLE (OEL C/STEL) [ppm] | 100 ppm STEL [VLCT] (restrictive limit) |
| Chemical category | Risk of cutaneous absorption |
| France - Biological limit values | |
| BLV | Parameter: Mandelic acid - Medium: urine - Sampling time: end of shift at end of workweek (per the Authority, the values for this substance must be decided and/or determined on a case by case basis. Guidance for the calculation of and interpretation of values is provided in the source) |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) [1] | 88 mg/m ³ |
| AGW (OEL TWA) [2] | 20 ppm |

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| Ethylbenzene (100-41-4) | |
|---|--|
| AGW (OEL C) | 176 mg/m ³ |
| AGW (OEL C) [ppm] | 40 ppm |
| Chemical category | Skin notation |
| Germany - Biological limit values (TRGS 903) | |
| BLV | 250 mg/g creatinine Parameter: Mandelic acid plus Phenylglyoxylic acid - Medium: urine - Sampling time: end of shift |
| Gibraltar - Occupational Exposure Limits | |
| OEL TWA | 442 mg/m ³ |
| OEL TWA | 100 ppm |
| OEL STEL | 884 mg/m ³ |
| OEL STEL | 200 ppm |
| Chemical category | Skin notation |
| Greece - Occupational Exposure Limits | |
| OEL TWA | 435 mg/m ³ |
| OEL TWA | 100 ppm |
| OEL STEL | 545 mg/m ³ |
| OEL STEL | 125 ppm |
| Hungary - Occupational Exposure Limits | |
| AK (OEL TWA) | 442 mg/m ³ |
| CK (OEL STEL) | 884 mg/m ³ |
| Chemical category | Potential for cutaneous absorption |
| Ireland - Occupational Exposure Limits | |
| OEL TWA [1] | 442 mg/m ³ |
| OEL TWA [2] | 100 ppm |
| OEL STEL | 884 mg/m ³ |
| OEL STEL | 200 ppm |
| Chemical category | Potential for cutaneous absorption |
| Italy - Occupational Exposure Limits | |
| OEL TWA | 442 mg/m ³ |
| OEL TWA | 100 ppm |
| OEL STEL | 884 mg/m ³ |
| OEL STEL | 200 ppm |
| Chemical category | skin - potential for cutaneous absorption |
| Latvia - Occupational Exposure Limits | |
| OEL TWA | 442 mg/m ³ |
| OEL TWA | 100 ppm |
| OEL STEL | 884 mg/m ³ |
| OEL STEL | 200 ppm |
| Chemical category | skin - potential for cutaneous exposure |

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| Ethylbenzene (100-41-4) | |
|---|---|
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 442 mg/m ³ |
| IPRV (OEL TWA) [ppm] | 100 ppm |
| TPRV (OEL STEL) | 884 mg/m ³ |
| TPRV (OEL STEL) [ppm] | 200 ppm |
| Chemical category | Skin notation |
| Luxembourg - Occupational Exposure Limits | |
| OEL TWA | 442 mg/m ³ |
| OEL TWA | 100 ppm |
| OEL STEL | 884 mg/m ³ |
| OEL STEL | 200 ppm |
| Chemical category | Possibility of significant uptake through the skin |
| Malta - Occupational Exposure Limits | |
| OEL TWA | 442 mg/m ³ |
| OEL TWA | 100 ppm |
| OEL STEL | 884 mg/m ³ |
| OEL STEL | 200 ppm |
| Chemical category | Possibility of significant uptake through the skin |
| Netherlands - Occupational Exposure Limits | |
| TGG-8u (OEL TWA) | 215 mg/m ³ |
| TGG-8u (OEL TWA) [ppm] | 48.6 ppm |
| TGG-15min (OEL STEL) | 430 mg/m ³ |
| TGG-15min (OEL STEL) [ppm] | 97.3 ppm |
| MAC chemical category | Skin notation |
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 200 mg/m ³ |
| NDSCh (OEL STEL) | 400 mg/m ³ |
| Portugal - Occupational Exposure Limits | |
| OEL TWA | 442 mg/m ³ (indicative limit value) |
| OEL TWA | 100 ppm (indicative limit value) |
| OEL STEL | 884 mg/m ³ (indicative limit value) |
| OEL STEL | 200 ppm (indicative limit value) |
| Chemical category | A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans, skin - potential for cutaneous exposure indicative limit value |
| Romania - Occupational Exposure Limits | |
| OEL TWA | 442 mg/m ³ |
| OEL TWA | 100 ppm |
| OEL STEL | 884 mg/m ³ |
| OEL STEL | 200 ppm |

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| Ethylbenzene (100-41-4) | |
|--|--|
| Chemical category | Skin notation |
| Romania - Biological limit values | |
| BLV | 1.5 g/g creatinine Parameter: Mandelic acid - Medium: urine - Sampling time: end of work week |
| Slovakia - Occupational Exposure Limits | |
| NPHV (OEL TWA) [1] | 442 mg/m ³ |
| NPHV (OEL TWA) [2] | 100 ppm |
| NPHV (OEL C) | 884 mg/m ³ |
| Chemical category | Potential for cutaneous absorption |
| Slovakia - Biological limit values | |
| BLV | 12 mg/l Parameter: 2 and 4-Ethylphenol - Medium: urine - Sampling time: end of exposure or work shift (also after all work shifts for long-term exposure) 1600 mg/l Parameter: Mandelic acid and Phenylglycolic acid - Medium: urine - Sampling time: end of exposure or work shift (also after all work shifts for long-term exposure) |
| Slovenia - Occupational Exposure Limits | |
| OEL TWA | 442 mg/m ³ |
| OEL TWA | 100 ppm |
| OEL STEL | 884 mg/m ³ |
| OEL STEL | 200 ppm |
| Chemical category | Potential for cutaneous absorption |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) [1] | 441 mg/m ³ |
| VLA-ED (OEL TWA) [2] | 100 ppm |
| VLA-EC (OEL STEL) | 884 mg/m ³ |
| VLA-EC (OEL STEL) [ppm] | 200 ppm |
| Chemical category | skin - potential for cutaneous absorption |
| Spain - Biological limit values | |
| BLV | 700 mg/g creatinine Parameter: Mandelic acid plus Phenylglyoxylic acid - Medium: urine - Sampling time: end of workweek |
| Sweden - Occupational Exposure Limits | |
| NGV (OEL TWA) | 220 mg/m ³ |
| NGV (OEL TWA) [ppm] | 50 ppm |
| KTV (OEL STEL) | 884 mg/m ³ |
| KTV (OEL STEL) [ppm] | 200 ppm |
| Chemical category | Skin notation |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) [1] | 441 mg/m ³ |
| WEL TWA (OEL TWA) [2] | 100 ppm |
| WEL STEL (OEL STEL) | 552 mg/m ³ |
| WEL STEL (OEL STEL) [ppm] | 125 ppm |
| WEL chemical category | Potential for cutaneous absorption |

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| Ethylbenzene (100-41-4) | |
|---|--|
| Norway - Occupational Exposure Limits | |
| Grønseverdi (OEL TWA) [1] | 20 mg/m ³ |
| Grønseverdi (OEL TWA) [2] | 5 ppm |
| Korttidsverdi (OEL STEL) | 30 mg/m ³ (value calculated) |
| Korttidsverdi (OEL STEL) [ppm] | 10 ppm (value calculated) |
| Chemical category | Skin notation, Carcinogen |
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) [1] | 435 mg/m ³ |
| MAK (OEL TWA) [2] | 100 ppm |
| KZGW (OEL STEL) | 435 mg/m ³ |
| KZGW (OEL STEL) [ppm] | 100 ppm |
| Chemical category | Skin notation |
| Switzerland - Biological limit values | |
| BAT | 600 mg/g creatinine Parameter: Mandelic acid and Phenylglyoxylacid - Medium: urine - Sampling time: end of shift (see also Styrene) |
| Turkey - Occupational Exposure Limits | |
| OEL TWA | 442 mg/m ³ |
| OEL TWA | 100 ppm |
| OEL STEL | 884 mg/m ³ |
| OEL STEL | 200 ppm |
| Chemical category | Skin notation |
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Ethylbenzene |
| ACGIH OEL TWA [ppm] | 20 ppm |
| Remark (ACGIH) | TLV® Basis: URT & eye irr; ototoxicity; kidney eff; CNS impair. Notations: OTO (Ototoxicant); A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI |
| ACGIH chemical category | Confirmed Animal Carcinogen with Unknown Relevance to Humans |
| Regulatory reference | ACGIH 2023 |
| USA - ACGIH - Biological Exposure Indices | |
| Local name | ETHYLBENZENE |
| BEI | 0.15 g/g creatinine Parameter: Sum of mandelic acid and phenylglyoxylic acid (with hydrolysis) - Medium: urine - Sampling time: End of shift - Notations: Ns |
| Regulatory reference | ACGIH 2023 |
| Naphthalene (91-20-3) | |
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| IOEL TWA | 50 mg/m ³ |
| IOEL TWA [ppm] | 10 ppm |
| Austria - Occupational Exposure Limits | |
| MAK (OEL TWA) | 50 mg/m ³ |

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| Naphthalene (91-20-3) | |
|--|-----------------------------------|
| MAK (OEL TWA) [ppm] | 10 ppm |
| Chemical category | Skin notation, Group B Carcinogen |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 53 mg/m ³ |
| OEL TWA | 10 ppm |
| OEL STEL | 80 mg/m ³ |
| OEL STEL | 5 ppm |
| Chemical category | Skin |
| Bulgaria - Occupational Exposure Limits | |
| OEL TWA | 50 mg/m ³ |
| OEL STEL | 75 mg/m ³ |
| Croatia - Occupational Exposure Limits | |
| GVI (OEL TWA) [1] | 50 mg/m ³ |
| GVI (OEL TWA) [2] | 10 ppm |
| Cyprus - Occupational Exposure Limits | |
| OEL TWA | 50 mg/m ³ |
| OEL TWA | 10 ppm |
| Czech Republic - Occupational Exposure Limits | |
| PEL (OEL TWA) | 50 mg/m ³ |
| Denmark - Occupational Exposure Limits | |
| OEL TWA [1] | 50 mg/m ³ |
| OEL TWA [2] | 10 ppm |
| OEL STEL | 100 mg/m ³ |
| OEL STEL | 20 ppm |
| Estonia - Occupational Exposure Limits | |
| OEL TWA | 50 mg/m ³ |
| OEL TWA | 10 ppm |
| Finland - Occupational Exposure Limits | |
| HTP (OEL TWA) [1] | 5 mg/m ³ |
| HTP (OEL TWA) [2] | 1 ppm |
| HTP (OEL STEL) | 10 mg/m ³ |
| HTP (OEL STEL) [ppm] | 2 ppm |
| France - Occupational Exposure Limits | |
| VME (OEL TWA) | 50 mg/m ³ |
| VME (OEL TWA) [ppm] | 10 ppm |
| Chemical category | Carcinogen category 2 |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) [1] | 2 mg/m ³ |
| AGW (OEL TWA) [2] | 0.4 ppm |

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| Naphthalene (91-20-3) | |
|---|----------------------|
| AGW (OEL C) | 8 mg/m ³ |
| AGW (OEL C) [ppm] | 1.6 ppm |
| Chemical category | Skin notation |
| Gibraltar - Occupational Exposure Limits | |
| OEL TWA | 50 mg/m ³ |
| OEL TWA | 10 ppm |
| Greece - Occupational Exposure Limits | |
| OEL TWA | 50 mg/m ³ |
| OEL TWA | 10 ppm |
| Hungary - Occupational Exposure Limits | |
| AK (OEL TWA) | 50 mg/m ³ |
| Ireland - Occupational Exposure Limits | |
| OEL TWA [1] | 50 mg/m ³ |
| OEL TWA [2] | 10 ppm |
| OEL STEL | 75 mg/m ³ |
| OEL STEL | 15 ppm |
| Italy - Occupational Exposure Limits | |
| OEL TWA | 50 mg/m ³ |
| OEL TWA | 10 ppm |
| Latvia - Occupational Exposure Limits | |
| OEL TWA | 50 mg/m ³ |
| OEL TWA | 10 ppm |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 50 mg/m ³ |
| IPRV (OEL TWA) [ppm] | 10 ppm |
| Chemical category | Carcinogen |
| Luxembourg - Occupational Exposure Limits | |
| OEL TWA | 50 mg/m ³ |
| OEL TWA | 10 ppm |
| Malta - Occupational Exposure Limits | |
| OEL TWA | 50 mg/m ³ |
| OEL TWA | 10 ppm |
| Netherlands - Occupational Exposure Limits | |
| TGG-8u (OEL TWA) | 50 mg/m ³ |
| TGG-8u (OEL TWA) [ppm] | 10 ppm |
| TGG-15min (OEL STEL) | 80 mg/m ³ |
| TGG-15min (OEL STEL) [ppm] | 16 ppm |
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 20 mg/m ³ |

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| Naphthalene (91-20-3) | |
|--|--|
| NDSch (OEL STEL) | 50 mg/m ³ |
| NDSP (OEL C) | 50 mg/m ³ |
| Portugal - Occupational Exposure Limits | |
| OEL TWA | 50 mg/m ³ (indicative limit value) |
| OEL TWA | 10 ppm (indicative limit value) |
| OEL STEL | 15 ppm |
| Chemical category | A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans, skin - potential for cutaneous exposure |
| Romania - Occupational Exposure Limits | |
| OEL TWA | 50 mg/m ³ |
| OEL TWA | 9.5 ppm |
| Chemical category | C2 |
| Slovakia - Occupational Exposure Limits | |
| NPHV (OEL TWA) [1] | 50 mg/m ³ |
| NPHV (OEL TWA) [2] | 10 ppm |
| NPHV (OEL C) | 80 mg/m ³ |
| Chemical category | Potential for cutaneous absorption |
| Slovenia - Occupational Exposure Limits | |
| OEL TWA | 50 mg/m ³ (inhalable fraction) |
| OEL TWA | 10 ppm |
| OEL STEL | 50 mg/m ³ (inhalable fraction) |
| OEL STEL | 10 ppm |
| Chemical category | Category 2, Potential for cutaneous absorption |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) [1] | 53 mg/m ³ |
| VLA-ED (OEL TWA) [2] | 10 ppm |
| VLA-EC (OEL STEL) | 80 mg/m ³ |
| VLA-EC (OEL STEL) [ppm] | 15 ppm |
| Chemical category | skin - potential for cutaneous absorption |
| Sweden - Occupational Exposure Limits | |
| NGV (OEL TWA) | 50 mg/m ³ |
| NGV (OEL TWA) [ppm] | 10 ppm |
| KTV (OEL STEL) | 80 mg/m ³ |
| KTV (OEL STEL) [ppm] | 15 ppm |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) [1] | 53 mg/m ³ |
| WEL TWA (OEL TWA) [2] | 10 ppm |
| WEL STEL (OEL STEL) | 80 mg/m ³ |
| WEL STEL (OEL STEL) [ppm] | 15 ppm |

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| Naphthalene (91-20-3) | |
|---|--|
| Norway - Occupational Exposure Limits | |
| Grønseverdi (OEL TWA) [1] | 50 mg/m ³ |
| Grønseverdi (OEL TWA) [2] | 10 ppm |
| Korttidsverdi (OEL STEL) | 75 mg/m ³ (value calculated) |
| Korttidsverdi (OEL STEL) [ppm] | 20 ppm (value calculated) |
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) [1] | 50 mg/m ³ (aerosol, vapour) |
| MAK (OEL TWA) [2] | 10 ppm (aerosol, vapour) |
| Chemical category | Skin notation, Category C2 carcinogen |
| Turkey - Occupational Exposure Limits | |
| OEL TWA | 50 mg/m ³ |
| OEL TWA | 10 ppm |
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Naphthalene |
| ACGIH OEL TWA [ppm] | 10 ppm |
| ACGIH OEL STEL [ppm] | 15 ppm |
| ACGIH chemical category | Confirmed Animal Carcinogen with Unknown Relevance to Humans, Skin - potential significant contribution to overall exposure by the cutaneous route |
| Regulatory reference | ACGIH 2023 |
| USA - ACGIH - Biological Exposure Indices | |
| Local name | NAPHTHALENE |
| BEI | Parameter: 1-Naphthol with hydrolysis plus 2-Naphthol with hydrolysis - Sampling time: end of shift (nonquantitative, nonspecific) |
| Regulatory reference | ACGIH 2023 |
| Xylene (1330-20-7) | |
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| IOEL TWA | 221 mg/m ³ |
| IOEL TWA [ppm] | 50 ppm |
| IOEL STEL | 442 mg/m ³ |
| IOEL STEL [ppm] | 100 ppm |
| Austria - Occupational Exposure Limits | |
| MAK (OEL TWA) | 221 mg/m ³ |
| MAK (OEL TWA) [ppm] | 50 ppm |
| MAK (OEL STEL) | 442 |
| MAK (OEL STEL) [ppm] | 100 ppm |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 221 |
| OEL TWA | 50 ppm |
| OEL STEL | 442 mg/m ³ |

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| Xylene (1330-20-7) | |
|--|--|
| OEL STEL | 100 ppm |
| Denmark - Occupational Exposure Limits | |
| OEL TWA [1] | 109 mg/m ³ |
| OEL TWA [2] | 25 ppm |
| OEL STEL | 218 mg/m ³ |
| OEL STEL | 50 ppm |
| Finland - Occupational Exposure Limits | |
| HTP (OEL TWA) [1] | 220 mg/m ³ |
| HTP (OEL TWA) [2] | 50 ppm |
| HTP (OEL STEL) | 440 mg/m ³ |
| HTP (OEL STEL) [ppm] | 100 ppm |
| France - Occupational Exposure Limits | |
| VME (OEL TWA) | 221 mg/m ³ [VME] (restrictive limit) |
| VME (OEL TWA) [ppm] | 50 ppm [VME] (restrictive limit) |
| VLE (OEL C/STEL) | 442 mg/m ³ [VLCT] (restrictive limit) |
| VLE (OEL C/STEL) [ppm] | 100 ppm [VLCT] (restrictive limit) |
| Chemical category | Risk of cutaneous absorption |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) [1] | 440 mg/m ³ |
| AGW (OEL TWA) [2] | 100 ppm |
| AGW (OEL C) | 880 mg/m ³ |
| AGW (OEL C) [ppm] | 200 ppm |
| Hungary - Occupational Exposure Limits | |
| AK (OEL TWA) | 221 mg/m ³ |
| CK (OEL STEL) | 442 mg/m ³ |
| Ireland - Occupational Exposure Limits | |
| OEL TWA [1] | 221 mg/m ³ |
| OEL TWA [2] | 50 ppm |
| OEL STEL | 442 mg/m ³ |
| OEL STEL | 100 ppm |
| Italy - Occupational Exposure Limits | |
| OEL TWA | 50 ppm TWA (pure) |
| OEL STEL | 100 ppm STEL (pure) |
| Chemical category | skin - potential for cutaneous absorption |
| Latvia - Occupational Exposure Limits | |
| OEL TWA | 221 mg/m ³ |
| OEL TWA | 50 ppm |
| OEL STEL | 442 mg/m ³ |
| OEL STEL | 100 ppm |

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| Xylene (1330-20-7) | |
|--|---|
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 100 mg/m ³ |
| Romania - Occupational Exposure Limits | |
| OEL TWA | 221 mg/m ³ |
| OEL TWA | 50 ppm |
| OEL STEL | 422 mg/m ³ |
| OEL STEL | 100 ppm |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) [1] | 221 mg/m ³ |
| VLA-ED (OEL TWA) [2] | 50 ppm |
| VLA-EC (OEL STEL) | 442 mg/m ³ |
| VLA-EC (OEL STEL) [ppm] | 100 ppm |
| Sweden - Occupational Exposure Limits | |
| NGV (OEL TWA) | 221 mg/m ³ |
| NGV (OEL TWA) [ppm] | 50 ppm |
| KTV (OEL STEL) | 442 mg/m ³ |
| KTV (OEL STEL) [ppm] | 100 ppm |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) [1] | 221 mg/m ³ |
| WEL TWA (OEL TWA) [2] | 50 ppm |
| WEL STEL (OEL STEL) | 442 mg/m ³ |
| WEL STEL (OEL STEL) [ppm] | 100 ppm |
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) [1] | 435 mg/m ³ |
| MAK (OEL TWA) [2] | 100 ppm |
| KZGW (OEL STEL) | 870 mg/m ³ |
| KZGW (OEL STEL) [ppm] | 200 ppm |
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Xylene, mixed isomers (Dimethylbenzene) |
| ACGIH OEL TWA | 221 mg/m ³ |
| ACGIH OEL TWA [ppm] | 50 ppm |
| ACGIH OEL STEL | 442 mg/m ³ |
| ACGIH OEL STEL [ppm] | 100 ppm |
| Remark (ACGIH) | TLV® Basis: URT & eye irr; hematologic eff; ototoxicity (for mixtures containing p-xylene); CNS impair. Notations: OTO (for mixtures containing p-xylene); A4 (Not classifiable as a Human Carcinogen); BEI |
| Regulatory reference | ACGIH 2023 |
| USA - ACGIH - Biological Exposure Indices | |
| Local name | XYLENES (Technical or commercial grade) |

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| Xylene (1330-20-7) | |
|---|---|
| BEI | 1.5 g/g creatinine Parameter: Methylhippuric acids - Medium: urine - Sampling time: End of shift |
| Regulatory reference | ACGIH 2023 |
| Cumene (98-82-8) | |
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| IOEL TWA | 100 mg/m ³ |
| IOEL TWA [ppm] | 20 ppm |
| IOEL STEL | 250 mg/m ³ |
| IOEL STEL [ppm] | 50 ppm |
| Austria - Occupational Exposure Limits | |
| MAK (OEL TWA) | 100 mg/m ³ |
| MAK (OEL TWA) [ppm] | 20 ppm |
| MAK (OEL STEL) | 250 mg/m ³ |
| MAK (OEL STEL) [ppm] | 50 ppm |
| Chemical category | Skin notation |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 100 mg/m ³ |
| OEL TWA | 20 ppm |
| OEL STEL | 250 mg/m ³ |
| OEL STEL | 50 ppm |
| Chemical category | Skin, Skin notation |
| Bulgaria - Occupational Exposure Limits | |
| OEL TWA | 50 mg/m ³ (exposure monitoring should take into account the relevant biological monitoring methods of the Scientific Committee on Occupational Exposure Limits (SCOEL) under Annex 2) |
| OEL TWA | 10 ppm (exposure monitoring should take into account the relevant biological monitoring methods of the Scientific Committee on Occupational Exposure Limits (SCOEL) under Annex 2) |
| OEL STEL | 250 mg/m ³ (exposure monitoring should take into account the relevant biological monitoring methods of the Scientific Committee on Occupational Exposure Limits (SCOEL) under Annex 2) |
| OEL STEL | 50 ppm (exposure monitoring should take into account the relevant biological monitoring methods of the Scientific Committee on Occupational Exposure Limits (SCOEL) under Annex 2) |
| Bulgaria - Biological limit values | |
| BLV | 7 mg/g creatinine Parameter: 2-Phenol-2 propanol - Medium: urine - Sampling time: up to two hours after the end of work shift (possible significant absorption through the skin) |
| Croatia - Occupational Exposure Limits | |
| GVI (OEL TWA) [1] | 50 mg/m ³ (during the monitoring of exposure the relevant value of biological monitoring shall be taken into account as suggested by the Scientific Committee for Occupational Exposure Limits to Chemical Agents (SCOEL) (Cumene) |
| GVI (OEL TWA) [2] | 10 ppm (during the monitoring of exposure the relevant value of biological monitoring shall be taken into account as suggested by the Scientific Committee for Occupational Exposure Limits to Chemical Agents (SCOEL) (Cumene) |

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| Cumene (98-82-8) | |
|--|--|
| KGVI (OEL STEL) | 250 mg/m ³ (during the monitoring of exposure the relevant value of biological monitoring shall be taken into account as suggested by the Scientific Committee for Occupational Exposure Limits to Chemical Agents (SCOEL) (Cumene) |
| KGVI (OEL STEL) [ppm] | 50 ppm |
| Chemical category | Skin notation during the monitoring of exposure the relevant value of biological monitoring shall be taken into account as suggested by the Scientific Committee for Occupational Exposure Limits to Chemical Agents (SCOEL) |
| Cyprus - Occupational Exposure Limits | |
| OEL TWA | 50 mg/m ³ (inhalable fraction) |
| OEL TWA | 10 ppm (inhalable fraction) |
| OEL STEL | 250 mg/m ³ (inhalable fraction) |
| OEL STEL | 50 ppm (inhalable fraction) |
| Chemical category | Skin-potential for cutaneous absorption |
| Czech Republic - Occupational Exposure Limits | |
| PEL (OEL TWA) | 100 mg/m ³ |
| Chemical category | Potential for cutaneous absorption |
| Denmark - Occupational Exposure Limits | |
| OEL TWA [1] | 100 mg/m ³ |
| OEL TWA [2] | 20 ppm |
| OEL STEL | 200 mg/m ³ |
| OEL STEL | 40 ppm |
| Chemical category | Potential for cutaneous absorption |
| Estonia - Occupational Exposure Limits | |
| OEL TWA | 50 mg/m ³ |
| OEL TWA | 10 ppm |
| OEL STEL | 250 mg/m ³ |
| OEL STEL | 50 ppm |
| Chemical category | Skin notation |
| Finland - Occupational Exposure Limits | |
| HTP (OEL TWA) [1] | 100 mg/m ³ |
| HTP (OEL TWA) [2] | 20 ppm |
| HTP (OEL STEL) | 250 mg/m ³ |
| HTP (OEL STEL) [ppm] | 50 ppm |
| Chemical category | Potential for cutaneous absorption |
| France - Occupational Exposure Limits | |
| VME (OEL TWA) | 100 mg/m ³ |
| VME (OEL TWA) [ppm] | 20 ppm |
| VLE (OEL C/STEL) | 250 mg/m ³ |
| VLE (OEL C/STEL) [ppm] | 50 ppm |
| Chemical category | Risk of cutaneous absorption |

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| Cumene (98-82-8) | |
|--|--|
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) [1] | 50 mg/m ³ |
| AGW (OEL TWA) [2] | 10 ppm |
| AGW (OEL C) | 200 mg/m ³ |
| AGW (OEL C) [ppm] | 40 ppm |
| Chemical category | Skin notation |
| Germany - Biological limit values (TRGS 903) | |
| BLV | 10 mg/g creatinine Parameter: 2-Phenyl-2-propanol (after hydrolysis) - Medium: urine - Sampling time: end of shift |
| Gibraltar - Occupational Exposure Limits | |
| OEL TWA | 100 mg/m ³ |
| OEL TWA | 20 ppm |
| OEL STEL | 250 mg/m ³ |
| OEL STEL | 50 ppm |
| Chemical category | Skin notation |
| Greece - Occupational Exposure Limits | |
| OEL TWA | 50 mg/m ³ (during the monitoring of the exposure, the relevant biological monitoring values recommended by the Scientific Committee on Occupational Exposure Limit Values (SCOEL) should be taken under consideration) |
| OEL TWA | 10 ppm (during the monitoring of the exposure, the relevant biological monitoring values recommended by the Scientific Committee on Occupational Exposure Limit Values (SCOEL) should be taken under consideration) |
| OEL STEL | 250 mg/m ³ (during the monitoring of the exposure, the relevant biological monitoring values recommended by the Scientific Committee on Occupational Exposure Limit Values (SCOEL) should be taken under consideration) |
| OEL STEL | 50 ppm (during the monitoring of the exposure, the relevant biological monitoring values recommended by the Scientific Committee on Occupational Exposure Limit Values (SCOEL) should be taken under consideration) |
| Chemical category | skin - potential for cutaneous absorption during the monitoring of the exposure, the relevant biological monitoring values recommended by the Scientific Committee on Occupational Exposure Limit Values (SCOEL) should be taken under consideration |
| Hungary - Occupational Exposure Limits | |
| AK (OEL TWA) | 100 mg/m ³ |
| CK (OEL STEL) | 250 mg/m ³ |
| Chemical category | Potential for cutaneous absorption |
| Ireland - Occupational Exposure Limits | |
| OEL TWA [1] | 100 mg/m ³ |
| OEL TWA [2] | 20 ppm |
| OEL STEL | 250 mg/m ³ |
| OEL STEL | 50 ppm |
| Chemical category | Potential for cutaneous absorption |
| Italy - Occupational Exposure Limits | |
| OEL TWA | 100 mg/m ³ |

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| Cumene (98-82-8) | |
|---|--|
| OEL TWA | 20 ppm |
| OEL STEL | 250 mg/m ³ |
| OEL STEL | 50 ppm |
| Chemical category | skin - potential for cutaneous absorption |
| Latvia - Occupational Exposure Limits | |
| OEL TWA | 100 mg/m ³ |
| OEL TWA | 20 ppm |
| OEL STEL | 250 mg/m ³ |
| OEL STEL | 50 ppm |
| Chemical category | skin - potential for cutaneous exposure |
| Latvia - Biological limit values | |
| BEI | 7 µg/g creatinine Parameter: Cumene - Medium: urine - Sampling time: no later than two hours after the end of the shift |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 50 mg/m ³ (in addition to the indicative occupational exposure limit values, biological monitoring values must be taken into account when monitoring exposure) |
| IPRV (OEL TWA) [ppm] | 10 ppm (in addition to the indicative occupational exposure limit values, biological monitoring values must be taken into account when monitoring exposure) |
| TPRV (OEL STEL) | 170 mg/m ³ (in addition to the indicative occupational exposure limit values, biological monitoring values must be taken into account when monitoring exposure) |
| TPRV (OEL STEL) [ppm] | 35 ppm (in addition to the indicative occupational exposure limit values, biological monitoring values must be taken into account when monitoring exposure) |
| Chemical category | Skin notation |
| Luxembourg - Occupational Exposure Limits | |
| OEL TWA | 50 mg/m ³ |
| OEL TWA | 10 ppm |
| OEL STEL | 250 mg/m ³ |
| OEL STEL | 50 ppm |
| Chemical category | Possibility of significant uptake through the skin |
| Malta - Occupational Exposure Limits | |
| OEL TWA | 50 mg/m ³ |
| OEL TWA | 10 ppm |
| OEL STEL | 250 mg/m ³ |
| OEL STEL | 50 ppm |
| Chemical category | Possibility of significant uptake through the skin |
| Netherlands - Occupational Exposure Limits | |
| TGG-8u (OEL TWA) | 100 mg/m ³ |
| TGG-8u (OEL TWA) [ppm] | 10 ppm |
| TGG-15min (OEL STEL) | 250 mg/m ³ |
| TGG-15min (OEL STEL) [ppm] | 50 ppm |
| MAC chemical category | Skin notation |

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| Cumene (98-82-8) | |
|--|--|
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 100 mg/m ³ |
| NDSCh (OEL STEL) | 250 mg/m ³ |
| Portugal - Occupational Exposure Limits | |
| OEL TWA | 50 mg/m ³ (indicative limit value) |
| OEL TWA | 10 ppm (indicative limit value) |
| OEL STEL | 250 mg/m ³ (indicative limit value) |
| OEL STEL | 50 ppm (indicative limit value) |
| Chemical category | skin - potential for cutaneous exposure indicative limit value |
| Romania - Occupational Exposure Limits | |
| OEL TWA | 100 mg/m ³ |
| OEL TWA | 20 ppm |
| OEL STEL | 250 mg/m ³ |
| OEL STEL | 50 ppm |
| Chemical category | Skin notation |
| Slovakia - Occupational Exposure Limits | |
| NPHV (OEL TWA) [1] | 500 mg/m ³ |
| NPHV (OEL TWA) [2] | 20 ppm |
| NPHV (OEL C) | 250 mg/m ³ |
| Chemical category | Potential for cutaneous absorption |
| Slovakia - Biological limit values | |
| BLV | 10.6 mg/l Parameter: 2-Phenylpropane - Medium: urine - Sampling time: end of exposure or work shift |
| Slovenia - Occupational Exposure Limits | |
| OEL TWA | 50 mg/m ³ |
| OEL TWA | 10 ppm |
| OEL STEL | 250 mg/m ³ |
| OEL STEL | 50 ppm |
| Chemical category | Potential for cutaneous absorption |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) [1] | 100 mg/m ³ |
| VLA-ED (OEL TWA) [2] | 20 ppm |
| VLA-EC (OEL STEL) | 250 mg/m ³ |
| VLA-EC (OEL STEL) [ppm] | 50 ppm |
| Chemical category | C1B, skin - potential for cutaneous absorption |
| Spain - Biological limit values | |
| BLV | 7 mg/g creatinine Parameter: 2-Phenyl-2-propanol - Medium: urine - Sampling time: end of shift (with hydrolysis) |
| Sweden - Occupational Exposure Limits | |
| NGV (OEL TWA) | 120 mg/m ³ |

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| Cumene (98-82-8) | |
|--|---|
| NGV (OEL TWA) [ppm] | 25 ppm |
| KTV (OEL STEL) | 250 mg/m ³ |
| KTV (OEL STEL) [ppm] | 50 ppm |
| Chemical category | Skin notation |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) [1] | 125 mg/m ³ |
| WEL TWA (OEL TWA) [2] | 25 ppm |
| WEL STEL (OEL STEL) | 375 mg/m ³ |
| WEL STEL (OEL STEL) [ppm] | 75 ppm |
| WEL chemical category | Potential for cutaneous absorption |
| Norway - Occupational Exposure Limits | |
| Grenseverdi (OEL TWA) [1] | 50 mg/m ³ |
| Grenseverdi (OEL TWA) [2] | 10 ppm |
| Korttidsverdi (OEL STEL) | 250 mg/m ³ (value from the regulation) |
| Korttidsverdi (OEL STEL) [ppm] | 50 ppm (value from the regulation) |
| Chemical category | Skin notation, Carcinogen |
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) [1] | 100 mg/m ³ |
| MAK (OEL TWA) [2] | 20 ppm |
| KZGW (OEL STEL) | 400 mg/m ³ |
| KZGW (OEL STEL) [ppm] | 80 ppm |
| Chemical category | Skin notation, Category C2 carcinogen |
| Switzerland - Biological limit values | |
| BAT | 20 mg/g creatinine Parameter: 2-Phenyl-2-propanol after hydrolysis - Medium: urine - Sampling time: end of shift Parameter: 2-Phenyl-2-propanol after hydrolysis - Medium: urine - Sampling time: end of shift |
| Turkey - Occupational Exposure Limits | |
| OEL TWA | 100 mg/m ³ |
| OEL TWA | 20 ppm |
| OEL STEL | 250 mg/m ³ |
| OEL STEL | 50 ppm |
| Chemical category | Skin notation |
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Cumene |
| ACGIH OEL TWA [ppm] | 50 ppm |
| Remark (ACGIH) | TLV® Basis: URT adenoma; neurological eff. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans) |
| ACGIH chemical category | Confirmed Animal Carcinogen with Unknown Relevance to Humans |
| Regulatory reference | ACGIH 2023 |

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| Limestone (1317-65-3) | |
|--|---|
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 10 mg/m ³ |
| Bulgaria - Occupational Exposure Limits | |
| OEL TWA | 1 fibers/cm ³ (containing <2% free Crystalline silicon dioxide in respirable fibrous particles fraction-respirable fraction, fibers) 10 mg/m ³ (containing <2% free Crystalline silicon dioxide in respirable fibrous particles fraction-inhalable fraction) |
| Czech Republic - Occupational Exposure Limits | |
| PEL (OEL TWA) | 10 mg/m ³ (dust) |
| Estonia - Occupational Exposure Limits | |
| OEL TWA | 10 mg/m ³ 5 mg/m ³ (respirable dust) |
| Greece - Occupational Exposure Limits | |
| OEL TWA | 10 mg/m ³ (inhalable fraction) 5 mg/m ³ (respirable fraction) |
| Hungary - Occupational Exposure Limits | |
| AK (OEL TWA) | 10 mg/m ³ |
| Ireland - Occupational Exposure Limits | |
| OEL TWA [1] | 10 mg/m ³ (respirable dust) 4 mg/m ³ |
| OEL STEL | 30 mg/m ³ (calculated) 12 mg/m ³ (calculated-total inhalable dust) |
| Romania - Occupational Exposure Limits | |
| OEL TWA | 10 mg/m ³ (Quartz <=1%-dust, inhalable fraction) |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) [1] | 10 mg/m ³ |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) [1] | 10 mg/m ³ (inhalable aerosol); 4 mg/m ³ (respirable aerosol) |
| WEL STEL (OEL STEL) | 30 mg/m ³ (calculated-inhalable dust) 12 mg/m ³ (calculated-respirable dust) |
| Silica: Crystalline, quartz (14808-60-7) | |
| Austria - Occupational Exposure Limits | |
| MAK (OEL TWA) | 0.15 mg/m ³ |
| Chemical category | Group C Carcinogen alveolar dust |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 0.1 mg/m ³ |
| Chemical category | Carcinogen alveolar dust |
| Croatia - Occupational Exposure Limits | |
| GVI (OEL TWA) [1] | 0.1 mg/m ³ (regulated under Quartz sand-respirable dust; respirable particle) |
| Czech Republic - Occupational Exposure Limits | |
| PEL (OEL TWA) | 0.1 mg/m ³ (dust) |

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| Silica: Crystalline, quartz (14808-60-7) | |
|---|---|
| Denmark - Occupational Exposure Limits | |
| OEL TWA [1] | 0.3 mg/m ³ |
| OEL STEL | 0.6 mg/m ³ |
| Finland - Occupational Exposure Limits | |
| HTP (OEL TWA) [1] | 0.5 mg/m ³ |
| France - Occupational Exposure Limits | |
| VME (OEL TWA) | 0.1 mg/m ³ |
| Hungary - Occupational Exposure Limits | |
| AK (OEL TWA) | 0.15 mg/m ³ |
| Ireland - Occupational Exposure Limits | |
| OEL TWA [1] | 0.1 mg/m ³ (respirable dust) |
| OEL STEL | 0.3 mg/m ³ |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) [ppm] | 0.1 ppm (Silicon dioxide variation-respirable fraction) |
| Netherlands - Occupational Exposure Limits | |
| TGG-8u (OEL TWA) | 0.075 mg/m ³ |
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 0.1 mg/m ³ (respirable fraction) |
| Portugal - Occupational Exposure Limits | |
| OEL TWA | 0.025 mg/m ³ (respirable fraction) |
| Chemical category | A2 - Suspected Human Carcinogen |
| Romania - Occupational Exposure Limits | |
| OEL TWA | 0.1 mg/m ³ (dust, respirable fraction) |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) [1] | 0.1 mg/m ³ |
| Sweden - Occupational Exposure Limits | |
| NGV (OEL TWA) | 0.1 mg/m ³ |
| Chemical category | Carcinogen |
| Norway - Occupational Exposure Limits | |
| Grenseverdi (OEL TWA) [1] | 0.05 mg/m ³ (dust containing .alpha.-Quartz, Cristobalite and/or Tridymite is evaluated by summation formula. At the same time, the values for Nuisance dust must be observed-respirable dust) 0.1 mg/m ³ (the Other mining and quarrying (industry code 08) and Civil engineering (industry code 42) valid until February 1, 2022-respirable dust) 0.3 mg/m ³ (dust containing .alpha.-Quartz, Cristobalite and/or Tridymite is evaluated by summation formula. At the same time, the values for Nuisance dust must be observed-total dust) |
| Korttidsverdi (OEL STEL) | 0.9 mg/m ³ (value calculated-total dust) 0.15 mg/m ³ (value calculated-respirable dust) 0.3 mg/m ³ (value calculated-respirable dust) |
| Chemical category | Carcinogen |

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| Silica: Crystalline, quartz (14808-60-7) | |
|--|---|
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) [1] | 0.15 mg/m ³ (respirable dust) |
| Chemical category | Category C1A carcinogen |
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Silica crystalline - quartz |
| ACGIH OEL TWA | 0.025 mg/m ³ (respirable fraction) |
| Remark (ACGIH) | TLV® Basis: Pulm fibrosis; lung cancer. Notations: A2 (Suspected Human Carcinogen) |
| ACGIH chemical category | Suspected Human Carcinogen |
| Regulatory reference | ACGIH 2023 |
| Barium sulfate (7727-43-7) | |
| EU - Biological Limit Value (BLV) | |
| Remark | OELs not established |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 5 mg/m ³ (without asbestos fibers and <1% Crystallized silicon dioxide) |
| Bulgaria - Occupational Exposure Limits | |
| OEL TWA | 10 mg/m ³ |
| Croatia - Occupational Exposure Limits | |
| GVI (OEL TWA) [1] | 10 mg/m ³ (total dust, inhalable particles) 4 mg/m ³ (respirable dust) |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) [1] | 1.25 mg/m ³ (respirable fraction (dust)) 10 mg/m ³ (inhalable fraction (dust)) |
| Ireland - Occupational Exposure Limits | |
| OEL TWA [1] | 5 mg/m ³ (respirable dust) |
| OEL STEL | 15 mg/m ³ (calculated-respirable dust) |
| Portugal - Occupational Exposure Limits | |
| OEL TWA | 5 mg/m ³ (inhalable fraction) |
| Slovakia - Occupational Exposure Limits | |
| NPHV (OEL TWA) [1] | 4 mg/m ³ (inhalable fraction) 1.5 mg/m ³ (respirable fraction) |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) [1] | 10 mg/m ³ (this value is for the particulate matter that is free from Asbestos and contains less than 1% of crystalline Silica) |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) [1] | 10 mg/m ³ inhalable aerosol 4 mg/m ³ respirable aerosol |
| WEL STEL (OEL STEL) | 30 mg/m ³ (calculated-inhalable dust) 12 mg/m ³ (calculated-respirable dust) |
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) [1] | 3 mg/m ³ (respirable dust) 3 mg/m ³ (total dust limit values-respirable fraction) 10 mg/m ³ (total dust limit values-inhalable fraction) |

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| Barium sulfate (7727-43-7) | |
|--|---|
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Barium sulfate |
| ACGIH OEL TWA | 5 mg/m ³ (I - Inhalable particulate matter, E - The value is for particulate matter containing no asbestos and < 1 % crystalline silica) |
| Remark (ACGIH) | TLV® Basis: Pneumoconiosis |
| Regulatory reference | ACGIH 2023 |
| C.I. Pigment Red 3 (2425-85-6) | |
| EU - Biological Limit Value (BLV) | |
| Remark | OELs not established |
| United Kingdom - Occupational Exposure Limits | |
| Remark (WEL) | OELs not established |
| Stoddard solvent (8052-41-3) | |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 533 mg/m ³ |
| OEL TWA | 100 ppm |
| Czech Republic - Occupational Exposure Limits | |
| PEL (OEL TWA) | 200 mg/m ³ |
| Denmark - Occupational Exposure Limits | |
| OEL TWA [1] | 145 mg/m ³ (= < 20% Aromatic compounds) |
| OEL TWA [2] | 25 ppm (= < 20% Aromatic compounds) |
| OEL STEL | 290 mg/m ³ (= < 20% Aromatic compounds) |
| OEL STEL | 50 ppm (= < 20% Aromatic compounds) |
| Estonia - Occupational Exposure Limits | |
| OEL TWA | 300 mg/m ³ |
| OEL TWA | 50 ppm |
| OEL STEL | 600 mg/m ³ |
| OEL STEL | 100 ppm |
| Greece - Occupational Exposure Limits | |
| OEL TWA | 575 mg/m ³ |
| OEL TWA | 100 ppm |
| OEL STEL | 720 mg/m ³ |
| OEL STEL | 125 ppm |
| Hungary - Occupational Exposure Limits | |
| Chemical category | Muta1B |
| Ireland - Occupational Exposure Limits | |
| OEL TWA [1] | 573 mg/m ³ |
| OEL TWA [2] | 100 ppm |
| Chemical category | Carc1B |

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| Stoddard solvent (8052-41-3) | |
|---|---|
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 300 mg/m ³ |
| IPRV (OEL TWA) [ppm] | 50 ppm (approximate value) |
| TPRV (OEL STEL) | 600 mg/m ³ (used as paint solvents and thinners, Ligroine containing 17-22% of Aromatic compounds (about 15-20% by volume) and the boiling range is approximately 150-200°C, the approximate size of the ppm calculated as White spirit containing 22% of Aromatic substances) |
| TPRV (OEL STEL) [ppm] | 100 ppm (approximate value) |
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 300 mg/m ³ (varnish) |
| NDSch (OEL STEL) | 900 mg/m ³ (varnish (Benzin)) |
| Portugal - Occupational Exposure Limits | |
| OEL TWA | 100 ppm |
| Sweden - Occupational Exposure Limits | |
| NGV (OEL TWA) | 300 mg/m ³ (<2% aromatics) 175 mg/m ³ (2-25% aromatics) |
| NGV (OEL TWA) [ppm] | 50 ppm (<2% aromatics) 30 ppm (2-25% aromatics) |
| KTV (OEL STEL) | 600 mg/m ³ (<2% aromatics) 350 mg/m ³ (2-25% aromatics) |
| KTV (OEL STEL) [ppm] | 100 ppm (<2% aromatics) 60 ppm (2-25% aromatics) |
| Chemical category | Skin notation 2-25% aromatics, Skin notation 2-25% aromatics |
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Stoddard solvent |
| ACGIH OEL TWA [ppm] | 100 ppm |
| Remark (ACGIH) | TLV® Basis: Eye, skin, & kidney dam; nausea; CNS impair |
| Regulatory reference | ACGIH 2023 |
| Titanium dioxide (13463-67-7) | |
| Austria - Occupational Exposure Limits | |
| MAK (OEL TWA) | 5 mg/m ³ (alveolar dust, respirable fraction) |
| MAK (OEL STEL) | 10 mg/m ³ (alveolar dust, respirable fraction) |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 10 mg/m ³ |
| Bulgaria - Occupational Exposure Limits | |
| OEL TWA | 10 mg/m ³ (respirable dust) |
| Croatia - Occupational Exposure Limits | |
| GVI (OEL TWA) [1] | 10 mg/m ³ (total dust, inhalable particles) 4 mg/m ³ (respirable dust) |
| Denmark - Occupational Exposure Limits | |
| OEL TWA [1] | 6 mg/m ³ |
| OEL STEL | 12 mg/m ³ |

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| Titanium dioxide (13463-67-7) | |
|--|---|
| Estonia - Occupational Exposure Limits | |
| OEL TWA | 5 mg/m ³ |
| France - Occupational Exposure Limits | |
| VME (OEL TWA) | 11 mg/m ³ |
| Chemical category | Carcinogen category 2 |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) [1] | 0.3 mg/m ³ |
| AGW (OEL C) | 2.4 mg/m ³ |
| Greece - Occupational Exposure Limits | |
| OEL TWA | 10 mg/m ³ (inhalable fraction) 5 mg/m ³ (respirable fraction) |
| Ireland - Occupational Exposure Limits | |
| OEL TWA [1] | 10 mg/m ³ |
| OEL STEL | 30 mg/m ³ (calculated-respirable dust) 12 mg/m ³ (calculated) |
| Latvia - Occupational Exposure Limits | |
| OEL TWA | 10 mg/m ³ |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 5 mg/m ³ |
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 10 mg/m ³ |
| NDSP (OEL C) | 30 mg/m ³ |
| Portugal - Occupational Exposure Limits | |
| OEL TWA | 10 mg/m ³ |
| Chemical category | A4 - Not Classifiable as a Human Carcinogen |
| Romania - Occupational Exposure Limits | |
| OEL TWA | 10 mg/m ³ |
| OEL STEL | 15 mg/m ³ |
| Slovakia - Occupational Exposure Limits | |
| NPHV (OEL TWA) [1] | 5 mg/m ³ |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) [1] | 10 mg/m ³ |
| Sweden - Occupational Exposure Limits | |
| NGV (OEL TWA) | 5 mg/m ³ |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) [1] | 10 mg/m ³ inhalable aerosol 4 mg/m ³ respirable aerosol |
| WEL STEL (OEL STEL) | 30 mg/m ³ (calculated-total inhalable) 12 mg/m ³ (calculated-respirable) |
| Norway - Occupational Exposure Limits | |
| Grønseverdi (OEL TWA) [1] | 5 mg/m ³ |

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| Titanium dioxide (13463-67-7) | |
|---|--|
| Korttidsverdi (OEL STEL) | 10 mg/m ³ (value calculated) |
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) [1] | 3 mg/m ³ (respirable dust) 3 mg/m ³ (total dust limit values) 10 mg/m ³ (total dust limit values) |
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Titanium dioxide |
| ACGIH OEL TWA | 10 mg/m ³ |
| Remark (ACGIH) | TLV® Basis: LRT irr; pneumoconiosis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans) |
| ACGIH chemical category | Confirmed Animal Carcinogen with Unknown Relevance to Humans |
| Regulatory reference | ACGIH 2023 |
| Methyl ethyl ketoxime (96-29-7) | |
| Austria - Occupational Exposure Limits | |
| Chemical category | Group B Carcinogen, Skin sensitizer |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) [1] | 1 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| AGW (OEL TWA) [2] | 0.3 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| Chemical category | Skin notation, Skin sensitization |
| Ireland - Occupational Exposure Limits | |
| OEL TWA [1] | 10 mg/m ³ |
| OEL TWA [2] | 3 ppm |
| OEL STEL | 33 mg/m ³ |
| OEL STEL | 10 ppm |
| Chemical category | Sensitizer |
| Portugal - Occupational Exposure Limits | |
| Chemical category | A4 - Not Classifiable as a Human Carcinogen |
| Slovenia - Occupational Exposure Limits | |
| OEL TWA | 1 mg/m ³ |
| OEL TWA | 0.3 ppm |
| OEL STEL | 8 mg/m ³ |
| OEL STEL | 2.4 ppm |
| Chemical category | Category 2, Potential for cutaneous absorption |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) [1] | 10 mg/m ³ (inhalable aerosol) 4 mg/m ³ (respirable aerosol) |
| Silica, amorphous, fumed, crystalline-free (112945-52-5) | |
| EU - Biological Limit Value (BLV) | |
| Remark | OELs not established |

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| Silica, amorphous, fumed, crystalline-free (112945-52-5) | |
|---|--|
| Austria - Occupational Exposure Limits | |
| MAK (OEL TWA) | 4 mg/m ³ (inhalable fraction (Silica, amorphous)) |
| France - Biological limit values | |
| Remark | OELs not established |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| Remark | OELs not established |
| Poland - Occupational Exposure Limits | |
| Remark (PL) | OELs not established |
| Spain - Biological limit values | |
| Remark | OELs not established |
| United Kingdom - Occupational Exposure Limits | |
| Remark (WEL) | OELs not established |
| Methyl ethyl ketone (78-93-3) | |
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| IOEL TWA | 600 mg/m ³ |
| IOEL TWA [ppm] | 200 ppm |
| IOEL STEL | 900 mg/m ³ |
| IOEL STEL [ppm] | 300 ppm |
| Austria - Occupational Exposure Limits | |
| MAK (OEL TWA) | 295 mg/m ³ |
| MAK (OEL TWA) [ppm] | 100 ppm |
| MAK (OEL STEL) | 590 mg/m ³ |
| MAK (OEL STEL) [ppm] | 200 ppm |
| Chemical category | Skin notation |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 600 mg/m ³ |
| OEL TWA | 200 ppm |
| OEL STEL | 900 mg/m ³ |
| OEL STEL | 300 ppm |
| Bulgaria - Occupational Exposure Limits | |
| OEL TWA | 590 mg/m ³ |
| OEL STEL | 885 mg/m ³ |
| Croatia - Occupational Exposure Limits | |
| GVI (OEL TWA) [1] | 600 mg/m ³ |
| GVI (OEL TWA) [2] | 200 ppm |
| KGVI (OEL STEL) | 900 mg/m ³ |
| KGVI (OEL STEL) [ppm] | 300 ppm |

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| Methyl ethyl ketone (78-93-3) | |
|--|---|
| Croatia - Biological limit values | |
| BLV | 2.6 mg/g creatinine Parameter: Ethyl methyl ketone - Medium: urine - Sampling time: at the end of the work shift (calculated on the average Creatinine value of 1.2 g/L urine) |
| Cyprus - Occupational Exposure Limits | |
| OEL TWA | 600 mg/m ³ |
| OEL TWA | 200 ppm |
| OEL STEL | 900 mg/m ³ |
| OEL STEL | 300 ppm |
| Czech Republic - Occupational Exposure Limits | |
| PEL (OEL TWA) | 600 mg/m ³ |
| Denmark - Occupational Exposure Limits | |
| OEL TWA [1] | 145 mg/m ³ |
| OEL TWA [2] | 50 ppm |
| OEL STEL | 290 mg/m ³ |
| OEL STEL | 100 ppm |
| Chemical category | Potential for cutaneous absorption |
| Estonia - Occupational Exposure Limits | |
| OEL TWA | 600 mg/m ³ |
| OEL TWA | 200 ppm |
| OEL STEL | 900 mg/m ³ |
| OEL STEL | 300 ppm |
| Finland - Occupational Exposure Limits | |
| HTP (OEL TWA) [1] | 60 mg/m ³ |
| HTP (OEL TWA) [2] | 20 ppm |
| HTP (OEL STEL) | 300 mg/m ³ |
| HTP (OEL STEL) [ppm] | 100 ppm |
| Chemical category | Potential for cutaneous absorption |
| France - Occupational Exposure Limits | |
| VME (OEL TWA) | 600 mg/m ³ |
| VME (OEL TWA) [ppm] | 200 ppm |
| VLE (OEL C/STEL) | 900 mg/m ³ |
| VLE (OEL C/STEL) [ppm] | 300 ppm |
| Chemical category | Risk of cutaneous absorption |
| France - Biological limit values | |
| BLV | Parameter: Methylethylketone - Medium: urine - Sampling time: end of shift (per the Authority, the values for this substance must be decided and/or determined on a case by case basis. Guidance for the calculation of and interpretation of values is provided in the source) |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) [1] | 600 mg/m ³ |

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| Methyl ethyl ketone (78-93-3) | |
|---|--|
| AGW (OEL TWA) [2] | 200 ppm |
| AGW (OEL C) | 600 mg/m ³ |
| AGW (OEL C) [ppm] | 200 ppm |
| Chemical category | Skin notation |
| Germany - Biological limit values (TRGS 903) | |
| BLV | 2 mg/l Parameter: 2-Butanone - Medium: urine - Sampling time: end of shift |
| Gibraltar - Occupational Exposure Limits | |
| OEL TWA | 600 mg/m ³ |
| OEL TWA | 200 ppm |
| OEL STEL | 900 mg/m ³ |
| OEL STEL | 300 ppm |
| Greece - Occupational Exposure Limits | |
| OEL TWA | 600 mg/m ³ |
| OEL TWA | 200 ppm |
| OEL STEL | 900 mg/m ³ |
| OEL STEL | 300 ppm |
| Hungary - Occupational Exposure Limits | |
| AK (OEL TWA) | 600 mg/m ³ |
| CK (OEL STEL) | 900 mg/m ³ |
| Chemical category | Potential for cutaneous absorption |
| Ireland - Occupational Exposure Limits | |
| OEL TWA [1] | 600 mg/m ³ |
| OEL TWA [2] | 200 ppm |
| OEL STEL | 900 mg/m ³ |
| OEL STEL | 300 ppm |
| Chemical category | Potential for cutaneous absorption |
| Italy - Occupational Exposure Limits | |
| OEL TWA | 600 mg/m ³ |
| OEL TWA | 200 ppm |
| OEL STEL | 900 mg/m ³ |
| OEL STEL | 300 ppm |
| Latvia - Occupational Exposure Limits | |
| OEL TWA | 200 mg/m ³ |
| OEL TWA | 67 ppm |
| OEL STEL | 900 mg/m ³ |
| OEL STEL | 300 ppm |
| Luxembourg - Occupational Exposure Limits | |
| OEL TWA | 600 mg/m ³ |
| OEL TWA | 200 ppm |

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| Methyl ethyl ketone (78-93-3) | |
|---|--|
| OEL STEL | 900 mg/m ³ |
| OEL STEL | 300 ppm |
| Malta - Occupational Exposure Limits | |
| OEL TWA | 600 mg/m ³ |
| OEL TWA | 200 ppm |
| OEL STEL | 900 mg/m ³ |
| OEL STEL | 300 ppm |
| Netherlands - Occupational Exposure Limits | |
| TGG-8u (OEL TWA) | 590 mg/m ³ |
| TGG-8u (OEL TWA) [ppm] | 197 ppm |
| TGG-15min (OEL STEL) | 900 mg/m ³ |
| TGG-15min (OEL STEL) [ppm] | 300 ppm |
| MAC chemical category | Skin notation |
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 590 |
| NDSch (OEL STEL) | 900 |
| Portugal - Occupational Exposure Limits | |
| OEL TWA | 600 mg/m ³ (indicative limit value) |
| OEL TWA | 200 ppm (indicative limit value) |
| OEL STEL | 900 mg/m ³ (indicative limit value) |
| OEL STEL | 300 ppm (indicative limit value) |
| Romania - Occupational Exposure Limits | |
| OEL TWA | 600 mg/m ³ |
| OEL TWA | 200 ppm |
| OEL STEL | 900 mg/m ³ |
| OEL STEL | 300 ppm |
| Romania - Biological limit values | |
| BLV | 2 mg/l Parameter: Methyleneethylketone - Medium: urine - Sampling time: end of shift |
| Slovakia - Occupational Exposure Limits | |
| NPHV (OEL TWA) [1] | 600 mg/m ³ |
| NPHV (OEL TWA) [2] | 200 ppm |
| NPHV (OEL C) | 900 mg/m ³ |
| Slovenia - Occupational Exposure Limits | |
| OEL TWA | 600 mg/m ³ |
| OEL TWA | 200 ppm |
| OEL STEL | 900 mg/m ³ |
| OEL STEL | 300 ppm |
| Chemical category | Potential for cutaneous absorption |

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| Methyl ethyl ketone (78-93-3) | |
|--|---|
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) [1] | 600 mg/m ³ |
| VLA-ED (OEL TWA) [2] | 200 ppm |
| VLA-EC (OEL STEL) | 900 mg/m ³ |
| VLA-EC (OEL STEL) [ppm] | 300 ppm |
| Spain - Biological limit values | |
| BLV | 2 mg/l Parameter: Methyl ethyl ketone - Medium: urine - Sampling time: end of shift |
| Sweden - Occupational Exposure Limits | |
| NGV (OEL TWA) | 150 mg/m ³ |
| NGV (OEL TWA) [ppm] | 50 ppm |
| KTV (OEL STEL) | 900 mg/m ³ |
| KTV (OEL STEL) [ppm] | 600 ppm |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) [1] | 600 mg/m ³ |
| WEL TWA (OEL TWA) [2] | 200 ppm |
| WEL STEL (OEL STEL) | 899 mg/m ³ |
| WEL STEL (OEL STEL) [ppm] | 300 ppm |
| WEL chemical category | Potential for cutaneous absorption |
| Norway - Occupational Exposure Limits | |
| Grenseverdi (OEL TWA) [1] | 220 mg/m ³ |
| Grenseverdi (OEL TWA) [2] | 75 ppm |
| Korttidsverdi (OEL STEL) | 275 mg/m ³ (value calculated) |
| Korttidsverdi (OEL STEL) [ppm] | 112.5 ppm (value calculated) |
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) [1] | 590 mg/m ³ |
| MAK (OEL TWA) [2] | 200 ppm |
| KZGW (OEL STEL) | 590 mg/m ³ |
| KZGW (OEL STEL) [ppm] | 200 ppm |
| Chemical category | Skin notation |
| Switzerland - Biological limit values | |
| BAT | 2 mg/l Parameter: 2-Butanone - Medium: urine - Sampling time: end of shift, before subsequent shift or 16 hour 27.7 µmol/l Parameter: 2-Butanone - Medium: urine - Sampling time: end of shift, before subsequent shift or 16 hour |
| Turkey - Occupational Exposure Limits | |
| OEL TWA | 600 mg/m ³ |
| OEL TWA | 200 ppm |
| OEL STEL | 900 mg/m ³ |
| OEL STEL | 300 ppm |

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| Methyl ethyl ketone (78-93-3) | |
|---|---|
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Methyl ethyl ketone (MEK) |
| ACGIH OEL TWA [ppm] | 200 ppm |
| ACGIH OEL STEL [ppm] | 300 ppm |
| Remark (ACGIH) | TLV® Basis: URT irr; CNS & PNS impair. Notations: BEI |
| Regulatory reference | ACGIH 2023 |
| USA - ACGIH - Biological Exposure Indices | |
| Local name | METHYL ETHYL KETONE |
| BEI | 2 mg/l Parameter: MEK - Medium: urine - Sampling time: end of shift (nonspecific) |
| Regulatory reference | ACGIH 2023 |
| Propylene glycol monomethyl ether acetate (108-65-6) | |
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| IOEL TWA | 275 mg/m ³ |
| IOEL TWA [ppm] | 50 ppm |
| IOEL STEL | 550 mg/m ³ |
| IOEL STEL [ppm] | 100 ppm |
| Notes | Possibility of significant uptake through the skin |
| Austria - Occupational Exposure Limits | |
| MAK (OEL TWA) | 275 mg/m ³ |
| MAK (OEL TWA) [ppm] | 50 ppm |
| MAK (OEL STEL) | 550 mg/m ³ |
| MAK (OEL STEL) [ppm] | 100 ppm |
| Chemical category | Skin notation |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 275 mg/m ³ |
| OEL TWA | 50 ppm |
| OEL STEL | 550 mg/m ³ |
| OEL STEL | 100 ppm |
| Chemical category | Skin, Skin notation |
| Bulgaria - Occupational Exposure Limits | |
| OEL TWA | 275 mg/m ³ |
| OEL TWA | 50 ppm |
| OEL STEL | 550 mg/m ³ |
| OEL STEL | 100 ppm |
| Croatia - Occupational Exposure Limits | |
| GVI (OEL TWA) [1] | 275 mg/m ³ |
| GVI (OEL TWA) [2] | 50 ppm |
| KGVI (OEL STEL) | 550 mg/m ³ |
| KGVI (OEL STEL) [ppm] | 100 ppm |

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| Propylene glycol monomethyl ether acetate (108-65-6) | |
|---|--|
| Chemical category | Skin notation |
| Cyprus - Occupational Exposure Limits | |
| OEL TWA | 275 mg/m ³ |
| OEL TWA | 50 ppm |
| OEL STEL | 550 mg/m ³ |
| OEL STEL | 100 ppm |
| Chemical category | Skin-potential for cutaneous absorption |
| Czech Republic - Occupational Exposure Limits | |
| PEL (OEL TWA) | 270 mg/m ³ |
| Chemical category | Potential for cutaneous absorption |
| Denmark - Occupational Exposure Limits | |
| OEL TWA [1] | 275 mg/m ³ |
| OEL TWA [2] | 50 ppm |
| OEL STEL | 550 mg/m ³ |
| OEL STEL | 100 ppm |
| Chemical category | Potential for cutaneous absorption |
| Estonia - Occupational Exposure Limits | |
| OEL TWA | 275 mg/m ³ |
| OEL TWA | 50 ppm |
| OEL STEL | 550 mg/m ³ |
| OEL STEL | 100 ppm |
| Chemical category | Skin notation, Sensitizer |
| Finland - Occupational Exposure Limits | |
| HTP (OEL TWA) [1] | 270 mg/m ³ |
| HTP (OEL TWA) [2] | 50 ppm |
| HTP (OEL STEL) | 550 mg/m ³ |
| HTP (OEL STEL) [ppm] | 100 ppm |
| Chemical category | Potential for cutaneous absorption |
| France - Occupational Exposure Limits | |
| VME (OEL TWA) | 275 mg/m ³ (restrictive limit) |
| VME (OEL TWA) [ppm] | 50 ppm (restrictive limit) |
| VLE (OEL C/STEL) | 550 mg/m ³ (restrictive limit) |
| VLE (OEL C/STEL) [ppm] | 100 ppm (restrictive limit) |
| Chemical category | Risk of cutaneous absorption |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) [1] | 270 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| AGW (OEL TWA) [2] | 50 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |

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| Propylene glycol monomethyl ether acetate (108-65-6) | |
|---|---|
| Gibraltar - Occupational Exposure Limits | |
| OEL TWA | 275 mg/m ³ |
| OEL TWA | 50 ppm |
| OEL STEL | 550 mg/m ³ |
| OEL STEL | 100 ppm |
| Chemical category | Skin notation |
| Greece - Occupational Exposure Limits | |
| OEL TWA | 275 mg/m ³ |
| OEL TWA | 50 ppm |
| OEL STEL | 550 mg/m ³ |
| OEL STEL | 100 ppm |
| Chemical category | skin - potential for cutaneous absorption |
| Hungary - Occupational Exposure Limits | |
| AK (OEL TWA) | 275 mg/m ³ |
| CK (OEL STEL) | 550 mg/m ³ |
| Ireland - Occupational Exposure Limits | |
| OEL TWA [1] | 275 mg/m ³ |
| OEL TWA [2] | 50 ppm |
| OEL STEL | 550 mg/m ³ |
| OEL STEL | 100 ppm |
| Chemical category | Potential for cutaneous absorption |
| Italy - Occupational Exposure Limits | |
| OEL TWA | 275 mg/m ³ |
| OEL TWA | 50 ppm |
| OEL STEL | 550 mg/m ³ |
| OEL STEL | 100 ppm |
| Chemical category | skin - potential for cutaneous absorption |
| Latvia - Occupational Exposure Limits | |
| OEL TWA | 275 mg/m ³ |
| OEL TWA | 50 ppm |
| Chemical category | skin - potential for cutaneous exposure |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 250 mg/m ³ |
| IPRV (OEL TWA) [ppm] | 50 ppm |
| TPRV (OEL STEL) | 400 mg/m ³ |
| TPRV (OEL STEL) [ppm] | 75 ppm |
| Chemical category | Skin notation |
| Luxembourg - Occupational Exposure Limits | |
| OEL TWA | 275 mg/m ³ |

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| Propylene glycol monomethyl ether acetate (108-65-6) | |
|---|--|
| OEL TWA | 50 ppm |
| OEL STEL | 550 mg/m ³ |
| OEL STEL | 100 ppm |
| Chemical category | Possibility of significant uptake through the skin |
| Malta - Occupational Exposure Limits | |
| OEL TWA | 275 mg/m ³ |
| OEL TWA | 50 ppm |
| OEL STEL | 550 mg/m ³ |
| OEL STEL | 100 ppm |
| Chemical category | Possibility of significant uptake through the skin |
| Netherlands - Occupational Exposure Limits | |
| TGG-8u (OEL TWA) | 550 mg/m ³ |
| TGG-8u (OEL TWA) [ppm] | 100 ppm |
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 260 mg/m ³ |
| NDSch (OEL STEL) | 520 mg/m ³ |
| Portugal - Occupational Exposure Limits | |
| OEL TWA | 275 mg/m ³ (indicative limit value) |
| OEL TWA | 50 ppm (indicative limit value) |
| OEL STEL | 550 mg/m ³ (indicative limit value) |
| OEL STEL | 100 ppm (indicative limit value) |
| Chemical category | skin - potential for cutaneous exposure indicative limit value |
| Romania - Occupational Exposure Limits | |
| OEL TWA | 275 mg/m ³ |
| OEL TWA | 50 ppm |
| OEL STEL | 550 mg/m ³ |
| OEL STEL | 100 ppm |
| Chemical category | Skin notation |
| Slovakia - Occupational Exposure Limits | |
| NPHV (OEL TWA) [1] | 275 mg/m ³ |
| NPHV (OEL TWA) [2] | 50 ppm |
| NPHV (OEL C) | 550 mg/m ³ |
| Chemical category | Potential for cutaneous absorption |
| Slovenia - Occupational Exposure Limits | |
| OEL TWA | 275 mg/m ³ |
| OEL TWA | 50 ppm |
| OEL STEL | 550 mg/m ³ |
| OEL STEL | 100 ppm |
| Chemical category | Potential for cutaneous absorption |

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Propylene glycol monomethyl ether acetate (108-65-6)

Spain - Occupational Exposure Limits

| | |
|-------------------------|--|
| VLA-ED (OEL TWA) [1] | 275 mg/m ³ (indicative limit value) |
| VLA-ED (OEL TWA) [2] | 50 ppm (indicative limit value) |
| VLA-EC (OEL STEL) | 550 mg/m ³ |
| VLA-EC (OEL STEL) [ppm] | 100 ppm |
| Chemical category | skin - potential for cutaneous absorption |

Sweden - Occupational Exposure Limits

| | |
|----------------------|-----------------------|
| NGV (OEL TWA) | 275 mg/m ³ |
| NGV (OEL TWA) [ppm] | 50 ppm |
| KTV (OEL STEL) | 550 mg/m ³ |
| KTV (OEL STEL) [ppm] | 100 ppm |
| Chemical category | Skin notation |

United Kingdom - Occupational Exposure Limits

| | |
|---------------------------|------------------------------------|
| WEL TWA (OEL TWA) [1] | 274 mg/m ³ |
| WEL TWA (OEL TWA) [2] | 50 ppm |
| WEL STEL (OEL STEL) | 548 mg/m ³ |
| WEL STEL (OEL STEL) [ppm] | 100 ppm |
| WEL chemical category | Potential for cutaneous absorption |

Norway - Occupational Exposure Limits

| | |
|--------------------------------|--|
| Grenseverdi (OEL TWA) [1] | 270 mg/m ³ |
| Grenseverdi (OEL TWA) [2] | 50 ppm |
| Korttidsverdi (OEL STEL) | 337.5 mg/m ³ (value calculated) |
| Korttidsverdi (OEL STEL) [ppm] | 75 ppm (value calculated) |
| Chemical category | Skin notation |

Switzerland - Occupational Exposure Limits

| | |
|-----------------------|-----------------------|
| MAK (OEL TWA) [1] | 275 mg/m ³ |
| MAK (OEL TWA) [2] | 50 ppm |
| KZGW (OEL STEL) | 275 mg/m ³ |
| KZGW (OEL STEL) [ppm] | 50 ppm |

Turkey - Occupational Exposure Limits

| | |
|-------------------|-----------------------|
| OEL TWA | 275 mg/m ³ |
| OEL TWA | 50 ppm |
| OEL STEL | 550 mg/m ³ |
| OEL STEL | 100 ppm |
| Chemical category | Skin notation |

Talc (14807-96-6)

Austria - Occupational Exposure Limits

| | |
|---------------|--|
| MAK (OEL TWA) | 2 mg/m ³ (Asbestos-free fibers-respirable fraction) |
|---------------|--|

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| Talc (14807-96-6) | |
|--|--|
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 2 mg/m ³ (alveolar dust) |
| Bulgaria - Occupational Exposure Limits | |
| OEL TWA | 1 fibers/cm ³ (containing <2% free Crystalline silicon dioxide in respirable fraction, fibrous fine particles-respirable fraction, fibers) 6 mg/m ³ (containing <2% free Crystalline silicon dioxide in respirable fraction, fibrous fine particles-inhalable fraction) 3 mg/m ³ (containing <2% free Crystalline silicon dioxide in respirable fraction, fibrous fine particles-respirable fraction) |
| Croatia - Occupational Exposure Limits | |
| GVI (OEL TWA) [1] | 1 mg/m ³ (Mg ₃ H ₂ (SiO ₃) ₄ -respirable dust) |
| Czech Republic - Occupational Exposure Limits | |
| PEL (OEL TWA) | 2 mg/m ³ |
| Denmark - Occupational Exposure Limits | |
| OEL TWA [1] | 0.003 fibers/cm ³ (with asbestos in the form of fibers) |
| OEL STEL | 0.006 fibers/cm ³ (with asbestos in the form of fibers) |
| Finland - Occupational Exposure Limits | |
| HTP (OEL TWA) [1] | 0.5 fibers/cm ³ 2 mg/m ³ (granular-inhalable dust) 1 mg/m ³ (granular-respirable dust) |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) [1] | 1.25 mg/m ³ (respirable fraction (dust)) 10 mg/m ³ (inhalable fraction (dust)) |
| Greece - Occupational Exposure Limits | |
| OEL TWA | 10 mg/m ³ (inhalable fraction) 2 mg/m ³ (respirable fraction) |
| Hungary - Occupational Exposure Limits | |
| AK (OEL TWA) | 2 mg/m ³ (without asbestos-respirable concentration (flying and fibrous powders)) |
| Ireland - Occupational Exposure Limits | |
| OEL TWA [1] | 10 mg/m ³ (total inhalable dust) 0.8 mg/m ³ (respirable dust) |
| OEL STEL | 30 mg/m ³ (calculated-respirable dust) 2.4 mg/m ³ (calculated) |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 2 mg/m ³ (inhalable fraction) 1 mg/m ³ (respirable fraction) |
| Netherlands - Occupational Exposure Limits | |
| TGG-8u (OEL TWA) | 0.25 mg/m ³ (respirable fraction) |
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 4 mg/m ³ (inhalable fraction) 1 mg/m ³ (respirable fraction) |
| Portugal - Occupational Exposure Limits | |
| OEL TWA | 2 mg/m ³ (respirable fraction, particulate matter containing no Asbestos and <1% Crystalline silica) |

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| Talc (14807-96-6) | |
|---|--|
| Chemical category | A4 - Not Classifiable as a Human Carcinogen |
| Romania - Occupational Exposure Limits | |
| OEL TWA | 2 mg/m ³ (no Asbestos fibers, neither Quartz >=1%-dust, respirable fraction) |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) [1] | 2 mg/m ³ (containing no Asbestos fibers-respirable fraction) |
| Sweden - Occupational Exposure Limits | |
| NGV (OEL TWA) | 2 mg/m ³ (total dust) 1 mg/m ³ (respirable fraction) |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) [1] | 1 mg/m ³ (respirable dust) |
| WEL STEL (OEL STEL) | 3 mg/m ³ (calculated-respirable dust) |
| Norway - Occupational Exposure Limits | |
| Grønseverdi (OEL TWA) [1] | 6 mg/m ³ (total dust) 2 mg/m ³ (respirable dust) |
| Korttidsverdi (OEL STEL) | 12 mg/m ³ (value calculated-total dust) 4 mg/m ³ (value calculated-respirable dust) |
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) [1] | 3 mg/m ³ (respirable dust) 3 mg/m ³ (total dust limit values) 10 mg/m ³ (total dust limit values) |
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Talc |
| ACGIH OEL TWA | 2 mg/m ³ particulate matter containing no asbestos and <1% crystalline silica, respirable fraction |
| ACGIH OEL TWA [ppm] | 0.1 fibers/cm ³ (Containing asbestos fibers. F - Respirable fibers) |
| Remark (ACGIH) | Containing no asbestos fibers = TLV® Basis: Pulm fibrosis; pulm func. Notations: A4 Containing asbestos fibers = TLV® Basis: Pneumoconiosis; lung cancer; mesothelioma. Notations: A1 (Confirmed Human Carcinogen) |
| ACGIH chemical category | Not Classifiable as a Human Carcinogen containing no asbestos fibers |
| Regulatory reference | ACGIH 2023 |
| Heptane, branched, cyclic and linear (426260-76-6) | |
| Czech Republic - Occupational Exposure Limits | |
| PEL (OEL TWA) | 1000 mg/m ³ |
| Cyclohexane (110-82-7) | |
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| IOEL TWA | 700 mg/m ³ |
| IOEL TWA [ppm] | 200 ppm |
| Austria - Occupational Exposure Limits | |
| MAK (OEL TWA) | 700 mg/m ³ |
| MAK (OEL TWA) [ppm] | 200 ppm |
| MAK (OEL STEL) | 2800 mg/m ³ |

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| Cyclohexane (110-82-7) | |
|--|---|
| MAK (OEL STEL) [ppm] | 800 ppm |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 350 mg/m ³ |
| OEL TWA | 100 ppm |
| Bulgaria - Occupational Exposure Limits | |
| OEL TWA | 700 mg/m ³ |
| OEL TWA | 200 ppm |
| Croatia - Occupational Exposure Limits | |
| GVI (OEL TWA) [1] | 700 mg/m ³ |
| GVI (OEL TWA) [2] | 200 ppm |
| Chemical category | Skin notation |
| Croatia - Biological limit values | |
| BLV | 150 mg/g creatinine Parameter: 1,2-Cyclohexanediol - Medium: urine - Sampling time: at the end of the work shift; at chronic exposure after several successive shifts (calculated on the average Creatinine value of 1.2 g/L urine) 450 µg/l Parameter: Cyclohexanol - Medium: blood - Sampling time: during exposure 3.2 mg/g creatinine Parameter: Cyclohexanol - Medium: urine - Sampling time: during the second half of the work shift (calculated on the average Creatinine value of 1.2 g/L urine) |
| Cyprus - Occupational Exposure Limits | |
| OEL TWA | 700 mg/m ³ |
| OEL TWA | 200 ppm |
| Czech Republic - Occupational Exposure Limits | |
| PEL (OEL TWA) | 700 mg/m ³ |
| Denmark - Occupational Exposure Limits | |
| OEL TWA [1] | 172 mg/m ³ |
| OEL TWA [2] | 50 ppm |
| OEL STEL | 344 mg/m ³ |
| OEL STEL | 100 ppm |
| Estonia - Occupational Exposure Limits | |
| OEL TWA | 700 mg/m ³ |
| OEL TWA | 200 ppm |
| Finland - Occupational Exposure Limits | |
| HTP (OEL TWA) [1] | 350 mg/m ³ |
| HTP (OEL TWA) [2] | 100 ppm |
| HTP (OEL STEL) | 875 mg/m ³ |
| HTP (OEL STEL) [ppm] | 250 ppm |
| France - Occupational Exposure Limits | |
| VME (OEL TWA) | 700 mg/m ³ |
| VME (OEL TWA) [ppm] | 200 ppm |
| VLE (OEL C/STEL) | 1300 mg/m ³ (restrictive limit) |
| VLE (OEL C/STEL) [ppm] | 375 ppm (restrictive limit) |

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| Cyclohexane (110-82-7) | |
|--|---|
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) [1] | 700 mg/m ³ |
| AGW (OEL TWA) [2] | 200 ppm |
| AGW (OEL C) | 2800 mg/m ³ |
| AGW (OEL C) [ppm] | 800 ppm |
| Germany - Biological limit values (TRGS 903) | |
| BLV | 150 mg/g creatinine Parameter: total 1,2-Cyclohexanediol (after hydrolysis) - Medium: urine - Sampling time: end of shift 150 mg/g creatinine Parameter: total 1,2-Cyclohexanediol (after hydrolysis) - Medium: urine - Sampling time: for long-term exposures: at the end of the shift after several shifts |
| Gibraltar - Occupational Exposure Limits | |
| OEL TWA | 700 mg/m ³ |
| OEL TWA | 200 ppm |
| Greece - Occupational Exposure Limits | |
| OEL TWA | 700 mg/m ³ |
| OEL TWA | 200 ppm |
| Hungary - Occupational Exposure Limits | |
| AK (OEL TWA) | 700 mg/m ³ |
| Ireland - Occupational Exposure Limits | |
| OEL TWA [1] | 700 mg/m ³ |
| OEL TWA [2] | 200 ppm |
| OEL STEL | 2100 mg/m ³ (calculated) |
| OEL STEL | 600 ppm (calculated) |
| Italy - Occupational Exposure Limits | |
| OEL TWA | 350 mg/m ³ |
| OEL TWA | 100 ppm |
| Latvia - Occupational Exposure Limits | |
| OEL TWA | 80 mg/m ³ |
| OEL TWA | 23 ppm |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 700 mg/m ³ |
| IPRV (OEL TWA) [ppm] | 200 ppm |
| Luxembourg - Occupational Exposure Limits | |
| OEL TWA | 700 mg/m ³ |
| OEL TWA | 200 ppm |
| Malta - Occupational Exposure Limits | |
| OEL TWA | 700 mg/m ³ |
| OEL TWA | 200 ppm |
| Netherlands - Occupational Exposure Limits | |
| TGG-8u (OEL TWA) | 700 mg/m ³ |

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| Cyclohexane (110-82-7) | |
|--|--|
| TGG-8u (OEL TWA) [ppm] | 200 ppm |
| TGG-15min (OEL STEL) | 1400 mg/m ³ |
| TGG-15min (OEL STEL) [ppm] | 400 ppm |
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 300 mg/m ³ |
| NDSCh (OEL STEL) | 1000 mg/m ³ |
| Portugal - Occupational Exposure Limits | |
| OEL TWA | 700 mg/m ³ (indicative limit value) |
| OEL TWA | 200 ppm (indicative limit value) |
| Romania - Occupational Exposure Limits | |
| OEL TWA | 700 mg/m ³ |
| OEL TWA | 200 ppm |
| Slovakia - Occupational Exposure Limits | |
| NPHV (OEL TWA) [1] | 700 mg/m ³ |
| NPHV (OEL TWA) [2] | 200 ppm |
| Slovenia - Occupational Exposure Limits | |
| OEL TWA | 700 mg/m ³ |
| OEL TWA | 200 ppm |
| OEL STEL | 2800 mg/m ³ |
| OEL STEL | 800 ppm |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) [1] | 700 mg/m ³ |
| VLA-ED (OEL TWA) [2] | 200 ppm |
| Sweden - Occupational Exposure Limits | |
| NGV (OEL TWA) | 700 mg/m ³ |
| NGV (OEL TWA) [ppm] | 200 ppm |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) [1] | 350 mg/m ³ |
| WEL TWA (OEL TWA) [2] | 100 ppm |
| WEL STEL (OEL STEL) | 1050 mg/m ³ |
| WEL STEL (OEL STEL) [ppm] | 300 ppm |
| Norway - Occupational Exposure Limits | |
| Grenseverdi (OEL TWA) [1] | 525 mg/m ³ |
| Grenseverdi (OEL TWA) [2] | 150 ppm |
| Korttidsverdi (OEL STEL) | 656.25 mg/m ³ (value calculated) |
| Korttidsverdi (OEL STEL) [ppm] | 187.5 ppm (value calculated) |
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) [1] | 700 mg/m ³ |
| MAK (OEL TWA) [2] | 200 ppm |

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| Cyclohexane (110-82-7) | |
|---|--|
| KZGW (OEL STEL) | 2800 mg/m ³ |
| KZGW (OEL STEL) [ppm] | 800 ppm |
| Switzerland - Biological limit values | |
| BAT | 150 mg/g creatinine Parameter: total 1,2-Cyclohexanediol - Medium: urine - Sampling time: end of shift, and after several shifts (for long-term exposures) Parameter: total 1,2-Cyclohexanediol - Medium: urine - Sampling time: end of shift, and after several shifts (for long-term exposures) |
| Turkey - Occupational Exposure Limits | |
| OEL TWA | 700 mg/m ³ |
| OEL TWA | 200 ppm |
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Cyclohexane |
| ACGIH OEL TWA [ppm] | 100 ppm |
| Remark (ACGIH) | TLV® Basis: CNS impair |
| Regulatory reference | ACGIH 2023 |
| USA - ACGIH - Biological Exposure Indices | |
| Local name | CYCLOHEXANE |
| BEI | 50 mg/g creatinine Parameter: 1,2-Cyclohexanediol - Medium: urine - Sampling time: End of shift, end of workweek - Notations: Ns |
| Regulatory reference | ACGIH 2023 |
| Hexane (110-54-3) | |
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| IOEL TWA | 72 mg/m ³ |
| IOEL TWA [ppm] | 20 ppm |
| Austria - Occupational Exposure Limits | |
| MAK (OEL TWA) | 72 |
| MAK (OEL TWA) [ppm] | 20 ppm |
| MAK (OEL STEL) | 288 |
| MAK (OEL STEL) [ppm] | 80 ppm |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 72 mg/m ³ |
| OEL TWA | 20 ppm |
| Bulgaria - Occupational Exposure Limits | |
| OEL TWA | 72 mg/m ³ |
| OEL TWA | 20 ppm |
| Croatia - Occupational Exposure Limits | |
| GVI (OEL TWA) [1] | 72 mg/m ³ |
| GVI (OEL TWA) [2] | 20 ppm |
| Chemical category | Skin notation |

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| Hexane (110-54-3) | |
|--|--|
| Croatia - Biological limit values | |
| BLV | 150 µg/l Parameter: n-Hexane - Medium: blood - Sampling time: during exposure 40 ppm Parameter: n-Hexane - Medium: final exhaled air - Sampling time: during exposure 0.2 mg/g creatinine Parameter: 2-Hexanol - Medium: urine - Sampling time: at the end of the work shift (calculated on the average Creatinine value of 1.2 g/L urine) 5.3 mg/g creatinine Parameter: 2,5-Hexanedione - Medium: urine - Sampling time: at the end of the work shift (calculated on the average Creatinine value of 1.2 g/L urine) |
| Cyprus - Occupational Exposure Limits | |
| OEL TWA | 72 mg/m ³ |
| OEL TWA | 20 ppm |
| Czech Republic - Occupational Exposure Limits | |
| PEL (OEL TWA) | 70 mg/m ³ |
| Chemical category | Potential for cutaneous absorption |
| Denmark - Occupational Exposure Limits | |
| OEL TWA [1] | 90 mg/m ³ |
| OEL TWA [2] | 25 ppm |
| OEL STEL | 180 mg/m ³ |
| OEL STEL | 50 ppm |
| Estonia - Occupational Exposure Limits | |
| OEL TWA | 72 mg/m ³ |
| OEL TWA | 20 ppm |
| Finland - Occupational Exposure Limits | |
| HTP (OEL TWA) [1] | 72 mg/m ³ |
| HTP (OEL TWA) [2] | 20 ppm |
| Chemical category | Potential for cutaneous absorption |
| France - Occupational Exposure Limits | |
| VME (OEL TWA) | 72 mg/m ³ |
| VME (OEL TWA) [ppm] | 20 ppm |
| Chemical category | Reproductive Toxin category 2 |
| France - Biological limit values | |
| BLV | Parameter: 2,5-Hexanedione - Medium: urine - Sampling time: end of shift (per the Authority, the values for this substance must be decided and/or determined on a case by case basis. Guidance for the calculation of and interpretation of values is provided in the source) |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) [1] | 180 mg/m ³ |
| AGW (OEL TWA) [2] | 50 ppm |
| AGW (OEL C) | 1440 mg/m ³ |
| AGW (OEL C) [ppm] | 400 ppm |

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| Hexane (110-54-3) | |
|---|--|
| Germany - Biological limit values (TRGS 903) | |
| BLV | 5 mg/l Parameter: 2,5-Hexandione plus 4,5-Dihydroxy-2-hexanone (after hydrolysis) - Medium: urine - Sampling time: end of shift |
| Gibraltar - Occupational Exposure Limits | |
| OEL TWA | 72 mg/m ³ |
| OEL TWA | 20 ppm |
| Greece - Occupational Exposure Limits | |
| OEL TWA | 72 mg/m ³ |
| OEL TWA | 20 ppm |
| Hungary - Occupational Exposure Limits | |
| AK (OEL TWA) | 72 mg/m ³ |
| Chemical category | Potential for cutaneous absorption |
| Ireland - Occupational Exposure Limits | |
| OEL TWA [1] | 72 mg/m ³ |
| OEL TWA [2] | 20 ppm |
| OEL STEL | 216 mg/m ³ (calculated) |
| OEL STEL | 60 ppm (calculated) |
| Chemical category | Potential for cutaneous absorption |
| Italy - Occupational Exposure Limits | |
| OEL TWA | 72 mg/m ³ |
| OEL TWA | 20 ppm |
| Latvia - Occupational Exposure Limits | |
| OEL TWA | 72 mg/m ³ |
| OEL TWA | 20 ppm |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 72 mg/m ³ |
| IPRV (OEL TWA) [ppm] | 20 ppm |
| Chemical category | Reproductive toxin |
| Luxembourg - Occupational Exposure Limits | |
| OEL TWA | 72 mg/m ³ |
| OEL TWA | 20 ppm |
| Malta - Occupational Exposure Limits | |
| OEL TWA | 72 mg/m ³ |
| OEL TWA | 20 ppm |
| Netherlands - Occupational Exposure Limits | |
| TGG-8u (OEL TWA) | 72 mg/m ³ |
| TGG-8u (OEL TWA) [ppm] | 20 ppm |
| TGG-15min (OEL STEL) | 144 mg/m ³ |
| TGG-15min (OEL STEL) [ppm] | 40 ppm |

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| Hexane (110-54-3) | |
|--|---|
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 72 mg/m ³ |
| Portugal - Occupational Exposure Limits | |
| OEL TWA | 72 mg/m ³ (indicative limit value) |
| OEL TWA | 20 ppm (indicative limit value) |
| Chemical category | skin - potential for cutaneous exposure |
| Romania - Occupational Exposure Limits | |
| OEL TWA | 72 mg/m ³ |
| OEL TWA | 20 ppm |
| Romania - Biological limit values | |
| BLV | 5 mg/g creatinine Parameter: 2,5-Hexandion - Medium: urine - Sampling time: end of shift |
| Slovakia - Occupational Exposure Limits | |
| NPHV (OEL TWA) [1] | 20 mg/m ³ 72 mg/m ³ |
| NPHV (OEL C) | 140 mg/m ³ |
| Slovakia - Biological limit values | |
| BLV | 5 mg/l Parameter: 2,5-Hexanedione - Medium: urine - Sampling time: end of exposure or work shift 5 mg/l Parameter: 4,5-Dihydroxy-2-hexanone - Medium: urine - Sampling time: end of exposure or work shift |
| Slovenia - Occupational Exposure Limits | |
| OEL TWA | 72 mg/m ³ |
| OEL TWA | 20 ppm |
| OEL STEL | 576 mg/m ³ |
| OEL STEL | 160 ppm |
| Chemical category | Category 2 |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) [1] | 72 mg/m ³ |
| VLA-ED (OEL TWA) [2] | 20 ppm |
| Spain - Biological limit values | |
| BLV | 0.2 mg/l Parameter: 2,5-Hexanedione - Medium: urine - Sampling time: end of workweek (without hydrolysis) |
| Sweden - Occupational Exposure Limits | |
| NGV (OEL TWA) | 72 mg/m ³ |
| NGV (OEL TWA) [ppm] | 20 ppm |
| KTV (OEL STEL) | 180 mg/m ³ |
| KTV (OEL STEL) [ppm] | 50 ppm |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) [1] | 72 mg/m ³ |
| WEL TWA (OEL TWA) [2] | 20 ppm |
| WEL STEL (OEL STEL) | 216 mg/m ³ (calculated) |

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| Hexane (110-54-3) | |
|---|--|
| WEL STEL (OEL STEL) [ppm] | 60 ppm (calculated) |
| Norway - Occupational Exposure Limits | |
| Grenseverdi (OEL TWA) [1] | 72 mg/m ³ |
| Grenseverdi (OEL TWA) [2] | 20 ppm |
| Korttidsverdi (OEL STEL) | 108 mg/m ³ (value calculated) |
| Korttidsverdi (OEL STEL) [ppm] | 30 ppm (value calculated) |
| Chemical category | Potential reproductive hazard |
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) [1] | 180 mg/m ³ |
| MAK (OEL TWA) [2] | 50 ppm |
| KZGW (OEL STEL) | 1440 mg/m ³ |
| KZGW (OEL STEL) [ppm] | 400 ppm |
| Chemical category | Skin notation, Category 2 reproductive toxin |
| Switzerland - Biological limit values | |
| BAT | 5 mg/l Parameter: 2,5-Hexanedione plus 4,5-Dihydroxy-2-hexanone - Medium: urine - Sampling time: end of shift |
| Turkey - Occupational Exposure Limits | |
| OEL TWA | 72 mg/m ³ |
| OEL TWA | 20 ppm |
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | n-Hexane |
| ACGIH OEL TWA [ppm] | 50 ppm |
| Remark (ACGIH) | TLV® Basis: CNS impair; peripheral neuropathy; eye irr. Notations: Skin; BEI |
| ACGIH chemical category | Skin - potential significant contribution to overall exposure by the cutaneous route |
| Regulatory reference | ACGIH 2023 |
| USA - ACGIH - Biological Exposure Indices | |
| Local name | n-HEXANE |
| BEI | 0.5 mg/l Parameter: 2,5-Hexanedione without hydrolysis - Medium: urine - Sampling time: end of shift |
| Regulatory reference | ACGIH 2023 |
| Isopropyl alcohol (67-63-0) | |
| Austria - Occupational Exposure Limits | |
| MAK (OEL TWA) | 500 mg/m ³ |
| MAK (OEL TWA) [ppm] | 200 ppm |
| MAK (OEL STEL) | 2000 mg/m ³ |
| MAK (OEL STEL) [ppm] | 800 ppm |
| Chemical category | Group C Carcinogen by manufacturing of strong Acid process, Group C Carcinogen by manufacturing of strong Acid process |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 500 mg/m ³ |

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| Isopropyl alcohol (67-63-0) | |
|--|--|
| OEL TWA | 200 ppm |
| OEL STEL | 1000 mg/m ³ |
| OEL STEL | 400 ppm |
| Bulgaria - Occupational Exposure Limits | |
| OEL TWA | 980 mg/m ³ |
| OEL STEL | 1225 mg/m ³ |
| Croatia - Occupational Exposure Limits | |
| GVI (OEL TWA) [1] | 999 mg/m ³ |
| GVI (OEL TWA) [2] | 400 ppm |
| KGVI (OEL STEL) | 1250 mg/m ³ |
| KGVI (OEL STEL) [ppm] | 500 ppm |
| Croatia - Biological limit values | |
| BLV | 50 mg/l Parameter: Acetone - Medium: blood - Sampling time: at the end of the work shift 50 mg/l Parameter: Acetone - Medium: urine - Sampling time: at the end of the work shift |
| Czech Republic - Occupational Exposure Limits | |
| PEL (OEL TWA) | 500 mg/m ³ |
| Chemical category | Potential for cutaneous absorption |
| Denmark - Occupational Exposure Limits | |
| OEL TWA [1] | 490 mg/m ³ |
| OEL TWA [2] | 200 ppm |
| OEL STEL | 980 mg/m ³ |
| OEL STEL | 400 ppm |
| Estonia - Occupational Exposure Limits | |
| OEL TWA | 350 mg/m ³ |
| OEL TWA | 150 ppm |
| OEL STEL | 600 mg/m ³ |
| OEL STEL | 250 ppm |
| Finland - Occupational Exposure Limits | |
| HTP (OEL TWA) [1] | 500 mg/m ³ |
| HTP (OEL TWA) [2] | 200 ppm |
| HTP (OEL STEL) | 620 mg/m ³ |
| HTP (OEL STEL) [ppm] | 250 ppm |
| France - Occupational Exposure Limits | |
| VLE (OEL C/STEL) | 980 mg/m ³ |
| VLE (OEL C/STEL) [ppm] | 400 ppm |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) [1] | 500 mg/m ³ |
| AGW (OEL TWA) [2] | 200 ppm |
| AGW (OEL C) | 1000 mg/m ³ |

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| Isopropyl alcohol (67-63-0) | |
|---|--|
| AGW (OEL C) [ppm] | 400 ppm |
| Germany - Biological limit values (TRGS 903) | |
| BLV | 25 mg/l Parameter: Acetone - Medium: whole blood - Sampling time: end of shift 25 mg/l Parameter: Acetone - Medium: urine - Sampling time: end of shift |
| Greece - Occupational Exposure Limits | |
| OEL TWA | 980 mg/m ³ |
| OEL TWA | 400 ppm |
| OEL STEL | 1225 mg/m ³ |
| OEL STEL | 500 ppm |
| Hungary - Occupational Exposure Limits | |
| AK (OEL TWA) | 500 mg/m ³ |
| CK (OEL STEL) | 2000 mg/m ³ |
| Chemical category | Potential for cutaneous absorption |
| Ireland - Occupational Exposure Limits | |
| OEL TWA [2] | 200 ppm |
| OEL STEL | 400 ppm |
| Chemical category | Potential for cutaneous absorption |
| Latvia - Occupational Exposure Limits | |
| OEL TWA | 350 mg/m ³ |
| OEL STEL | 600 mg/m ³ |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 350 mg/m ³ |
| IPRV (OEL TWA) [ppm] | 150 ppm |
| TPRV (OEL STEL) | 600 mg/m ³ |
| TPRV (OEL STEL) [ppm] | 250 ppm |
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 900 mg/m ³ |
| NDSCh (OEL STEL) | 1200 mg/m ³ |
| Portugal - Occupational Exposure Limits | |
| OEL TWA | 200 ppm |
| OEL STEL | 400 ppm |
| Chemical category | A4 - Not Classifiable as a Human Carcinogen |
| Romania - Occupational Exposure Limits | |
| OEL TWA | 200 |
| OEL TWA | 81 ppm |
| OEL STEL | 500 mg/m ³ |
| OEL STEL | 203 ppm |
| Romania - Biological limit values | |
| BLV | 50 mg/l Parameter: Acetone - Medium: urine - Sampling time: end of shift |

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| Isopropyl alcohol (67-63-0) | |
|--|---|
| Slovakia - Occupational Exposure Limits | |
| NPHV (OEL TWA) [1] | 500 mg/m ³ |
| NPHV (OEL TWA) [2] | 200 ppm |
| NPHV (OEL C) | 1000 mg/m ³ |
| Slovenia - Occupational Exposure Limits | |
| OEL TWA | 500 mg/m ³ |
| OEL TWA | 200 ppm |
| OEL STEL | 1000 mg/m ³ |
| OEL STEL | 400 ppm |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) [1] | 500 mg/m ³ |
| VLA-ED (OEL TWA) [2] | 200 ppm |
| VLA-EC (OEL STEL) | 1000 mg/m ³ |
| VLA-EC (OEL STEL) [ppm] | 400 ppm |
| Spain - Biological limit values | |
| BLV | 40 mg/l Parameter: Acetone - Medium: urine - Sampling time: end of workweek |
| Sweden - Occupational Exposure Limits | |
| NGV (OEL TWA) | 350 mg/m ³ |
| NGV (OEL TWA) [ppm] | 150 ppm |
| KTV (OEL STEL) | 600 mg/m ³ |
| KTV (OEL STEL) [ppm] | 250 ppm |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) [1] | 999 mg/m ³ |
| WEL TWA (OEL TWA) [2] | 400 ppm |
| WEL STEL (OEL STEL) | 1250 mg/m ³ |
| WEL STEL (OEL STEL) [ppm] | 500 ppm |
| Norway - Occupational Exposure Limits | |
| Grenseverdi (OEL TWA) [1] | 245 mg/m ³ |
| Grenseverdi (OEL TWA) [2] | 100 ppm |
| Korttidsverdi (OEL STEL) | 306.25 mg/m ³ (value calculated) |
| Korttidsverdi (OEL STEL) [ppm] | 150 ppm (value calculated) |
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) [1] | 500 mg/m ³ |
| MAK (OEL TWA) [2] | 200 ppm |
| KZGW (OEL STEL) | 1000 mg/m ³ |
| KZGW (OEL STEL) [ppm] | 400 ppm |

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| Isopropyl alcohol (67-63-0) | |
|---|--|
| Switzerland - Biological limit values | |
| BAT | 25 mg/l Parameter: Acetone - Medium: urine - Sampling time: end of shift Parameter: Acetone - Medium: urine - Sampling time: end of shift 25 mg/l Parameter: Acetone - Medium: whole blood - Sampling time: end of shift Parameter: Acetone - Medium: whole blood - Sampling time: end of shift |
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | 2-Propanol |
| ACGIH OEL TWA [ppm] | 200 ppm |
| ACGIH OEL STEL [ppm] | 400 ppm |
| Remark (ACGIH) | TLV® Basis: Eye & URT irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI |
| ACGIH chemical category | Not Classifiable as a Human Carcinogen |
| Regulatory reference | ACGIH 2023 |
| USA - ACGIH - Biological Exposure Indices | |
| Local name | 2-PROPANOL |
| BEI | 40 mg/l Parameter: Acetone - Medium: urine - Sampling time: end of shift at end of workweek (background, nonspecific) |
| Regulatory reference | ACGIH 2023 |

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

8.2.2. Personal protection equipment

Personal protective equipment:

Gloves. Protective goggles. Protective clothing. Insufficient ventilation: wear respiratory protection.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Wear eye protection, including chemical splash goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles. [EN 167]

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8.2.2.2. Skin protection

Skin and body protection:

Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure. [EN 14605:2005 and EN 13034:2005]

Hand protection:

Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Suitable gloves for this specific application can be recommended by the glove supplier.

8.2.2.3. Respiratory protection

Respiratory protection:

Wear a NIOSH-approved (or equivalent) full-facepiece airline respirator in the positive pressure mode with emergency escape provisions. In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment with gas filter (type A2). Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection. [EN 137]

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|----------------------------------|
| Physical state | : Liquid |
| Colour | : Red. |
| Odour | : Not available |
| Odour threshold | : Not available |
| Melting point | : Not available |
| Freezing point | : Not available |
| Boiling point | : Not available |
| Flammability | : Not available |
| Explosive limits | : Not available |
| Lower explosive limit (LEL) | : Not available |
| Upper explosive limit (UEL) | : Not available |
| Flash point | : 15 °C (59 °F) (Naphtha values) |
| Auto-ignition temperature | : Not available |
| Decomposition temperature | : Not available |
| pH | : Not available |
| Viscosity, kinematic | : Not available |
| Solubility | : Not available |
| Partition coefficient n-octanol/water (Log Kow) | : Not available |
| Vapour pressure | : Not available |
| Vapour pressure at 50°C | : Not available |
| Density | : Not available |
| Relative density | : Not available |
| Relative vapour density at 20°C | : Not available |
| Particle size | : Not applicable |
| Particle size distribution | : Not applicable |
| Particle shape | : Not applicable |
| Particle aspect ratio | : Not applicable |
| Particle aggregation state | : Not applicable |
| Particle agglomeration state | : Not applicable |
| Particle specific surface area | : Not applicable |
| Particle dustiness | : Not applicable |

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

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9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Ignition sources. Heat. Sparks. Open flame. Static electricity.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Distillates, petroleum, light distillate hydrotreating process, low-boiling (68410-97-9)

| | |
|-----------------------------|---------------------------------|
| LD50 oral rat | 5170 mg/kg (Source: CHEMVIEW) |
| LD50 dermal rabbit | > 3000 mg/kg (Source: ECHA_API) |
| LC50 Inhalation - Rat [ppm] | > 12408 ppm/4h |

Naphtha, petroleum, hydrotreated light (64742-49-0)

| | |
|-----------------------------|--|
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rat | 2800 – 3100 mg/kg bodyweight Animal: rat |
| LD50 dermal rabbit | > 3160 mg/kg |
| LC50 Inhalation - Rat | > 23.3 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity) |
| LC50 Inhalation - Rat [ppm] | 73680 ppm/4h |

Solvent naphtha, petroleum, light aliphatic (64742-89-8)

| | |
|--------------------|------------------------------------|
| LD50 oral rat | 5000 mg/kg mouse; (Source: IUCLID) |
| LD50 dermal rabbit | 3000 mg/kg (Source: IUCLID) |

Octane (111-65-9)

| | |
|--------------------|--|
| LD50 oral rat | > 5000 mg/kg Source: ECHA |
| LD50 dermal rabbit | > 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity) |

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Octane (111-65-9)

| | |
|---------------------------------|---------------------------|
| LC50 Inhalation - Rat | 118 g/m ³ 4 h |
| LC50 Inhalation - Rat (Vapours) | > 24.88 mg/l Source: ECHA |

n-Heptane (142-82-5)

| | |
|-----------------------|--|
| LD50 oral rat | 5000 mg/kg |
| LD50 dermal rat | 2800 – 3100 mg/kg bodyweight Animal: rat, Remarks on results: other: |
| LD50 dermal rabbit | 3000 mg/kg |
| LC50 Inhalation - Rat | 103 g/m ³ 4h |

Xylene (1330-20-7)

| | |
|-----------------------------|---|
| LD50 oral rat | 3523 mg/kg |
| LD50 dermal rabbit | 12126 mg/kg bodyweight Animal: rabbit, Animal sex: male, Remarks on results: other: |
| LC50 Inhalation - Rat | 27124 mg/m ³ (air) |
| LC50 Inhalation - Rat [ppm] | 5922 ppm |

Methyl ethyl ketone (78-93-3)

| | |
|---------------------------------|--------------------------------|
| LD50 oral rat | 2483 mg/kg (Source: JAPAN_GHS) |
| LD50 oral | 4000 mg/kg bodyweight |
| LD50 dermal rabbit | 5000 mg/kg (Source: JAPAN_GHS) |
| LC50 Inhalation - Rat [ppm] | 11700 ppm/4h |
| LC50 Inhalation - Rat (Vapours) | 32 mg/l Source: RTECS |

Hexane (110-54-3)

| | |
|---------------------------------|---------------------------|
| LD50 oral rat | 25 g/kg (Source: NLM_CIP) |
| LD50 dermal rat | > 2000 mg/kg Source: ECHA |
| LD50 dermal rabbit | 3000 mg/kg |
| LC50 Inhalation - Rat [ppm] | 48000 ppm/4h |
| LC50 Inhalation - Rat (Vapours) | 259.354 mg/l Source: ECHA |

| | |
|-----------------------------------|--|
| Skin corrosion/irritation | : Causes skin irritation. |
| Serious eye damage/irritation | : Causes serious eye irritation. |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction. |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Suspected of damaging fertility or the unborn child. |
| STOT-single exposure | : May cause drowsiness or dizziness. |
| STOT-repeated exposure | : May cause damage to organs through prolonged or repeated exposure. |
| Aspiration hazard | : May be fatal if swallowed and enters airways. |

11.2. Information on other hazards

11.2.1 Endocrine disrupting properties

The mixture contains Methyl ethyl ketone (CAS#78-93-3), which is identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605, at a concentration equal to or greater than 0,1 %

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : No information available.

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Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

Distillates, petroleum, light distillate hydrotreating process, low-boiling (68410-97-9)

| | |
|----------------------|--|
| LC50 - Fish [1] | 0.854 mg/l Source: Ecological Structure Activity Relationships |
| EC50 96h - Algae [1] | 1.323 mg/l Source: Ecological Structure Activity Relationships |

Naphtha, petroleum, hydrotreated light (64742-49-0)

| | |
|------------------------------------|--|
| LC50 - Fish [1] | 8.41 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static, closed] Source: ECHA) |
| LC50 - Other aquatic organisms [1] | 2.6 mg/l Source: IUCLID |
| EC50 72h - Algae [1] | 32 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| EC50 72h - Algae [2] | 100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| LOEC (chronic) | 0.32 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC (chronic) | 0.17 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |

Solvent naphtha, petroleum, light aliphatic (64742-89-8)

| | |
|----------------------|--|
| EC50 72h - Algae [1] | 4700 mg/l (Species: Pseudokirchneriella subcapitata) |
|----------------------|--|

Octane (111-65-9)

| | |
|----------------------|--|
| LC50 - Fish [1] | 0.885 mg/l |
| EC50 - Crustacea [1] | 0.38 mg/l (Exposure time: 48 h - Species: water flea) |
| EC50 72h - Algae [1] | 0.9 mg/l Source: ECHA |
| LOEC (chronic) | 0.32 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC (chronic) | 0.17 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |

n-Heptane (142-82-5)

| | |
|----------------------|--|
| LC50 - Fish [1] | 5.738 mg/l Source: QSAR |
| EC50 - Crustacea [1] | 1.5 mg/l |
| LOEC (chronic) | 0.32 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC (chronic) | 0.17 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |

Ethylbenzene (100-41-4)

| | |
|----------------------|---|
| LC50 - Fish [1] | 5.1 mg/l Source: ECHA |
| LC50 - Fish [2] | 4.2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static] Source: EPA) |
| EC50 - Crustacea [1] | 1.8 – 2.4 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| EC50 72h - Algae [1] | 4.6 mg/l (Species: Pseudokirchneriella subcapitata) |
| EC50 72h - Algae [2] | 2.6 – 11.3 mg/l (Species: Pseudokirchneriella subcapitata [static]) |
| EC50 96h - Algae [1] | 2.6 mg/l Source: ECHA |
| EC50 96h - Algae [2] | 1.7 – 7.6 mg/l (Species: Pseudokirchneriella subcapitata [static]) |
| LOEC (chronic) | 1.7 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d' |
| NOEC (chronic) | 0.96 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d' |

Xylene (1330-20-7)

| | |
|-----------------|-----------------------|
| LC50 - Fish [1] | 2.6 mg/l Source: ECHA |
|-----------------|-----------------------|

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| Xylene (1330-20-7) | |
|---|---|
| EC50 - Crustacea [1] | > 3.4 mg/l Test organisms (species): Ceriodaphnia dubia |
| LOEC (chronic) | 3.16 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC chronic fish | > 1.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '56 d' |
| Cumene (98-82-8) | |
| LC50 - Fish [1] | 4.7 mg/l Source: ECHA |
| LC50 - Fish [2] | 4.8 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |
| EC50 - Crustacea [1] | 2.14 mg/l Source: ECHA |
| EC50 - Crustacea [2] | 7.9 – 14.1 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) |
| EC50 72h - Algae [1] | 2.01 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |
| EC50 72h - Algae [2] | 1.29 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |
| ErC50 algae | 2.01 mg/l Source: ECHA |
| NOEC (chronic) | 0.35 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC chronic fish | 0.38 mg/l Test organisms (species): other: Duration: '28 d' |
| Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7) | |
| LC50 - Fish [1] | 0.97 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) |
| EC50 96h - Algae [1] | 0.017 mg/l Source: Ecological Structure Activity Relationships |
| Decanedioic acid, methyl 1,2,2,6,6-pentamethyl-4-piperidiny ester (82919-37-7) | |
| LC50 - Fish [1] | 0.996 mg/l |
| EC50 96h - Algae [1] | 0.615 mg/l Source: ECOSAR |
| Stoddard solvent (8052-41-3) | |
| LC50 - Fish [1] | 2.5 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |
| EC50 96h - Algae [1] | 0.58 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| NOEC (chronic) | 0.1 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| Methyl ethyl ketone (78-93-3) | |
| LC50 - Fish [1] | 3130 – 3320 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA) |
| EC50 - Crustacea [1] | > 520 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| EC50 - Crustacea [2] | 5091 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| EC50 72h - Algae [1] | 1972 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| EC50 96h - Algae [1] | 2029 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| Cyclohexane (110-82-7) | |
| LC50 - Fish [1] | 4.53 mg/l Test organisms (species): Pimephales promelas |

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| Cyclohexane (110-82-7) | |
|------------------------|--|
| LC50 - Fish [2] | 23.03 – 42.07 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA) |
| EC50 - Crustacea [1] | 0.9 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | 3.4 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| EC50 72h - Algae [2] | 9.317 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| ErC50 algae | 9.317 mg/l Source: ECHA |

| Hexane (110-54-3) | |
|-------------------|---|
| LC50 - Fish [1] | 2.1 – 2.98 mg/l 96 Hr LC50 Pimephales promelas [flow-through] |

12.2. Persistence and degradability

No information available

12.3. Bioaccumulative potential

No information available

12.4. Mobility in soil

No information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

The mixture contains Methyl ethyl ketone (CAS#78-93-3), which is identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605, at a concentration equal to or greater than 0,1 %

12.7. Other adverse effects

Other adverse effects : No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Obtain the consent of pollution control authorities before discharging to wastewater treatment plants.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number or ID number

UN-No. (ADR) : UN 1139
UN-No. (IMDG) : UN 1139
UN-No. (IATA) : UN 1139
UN-No. (ADN) : UN 1139
UN-No. (RID) : UN 1139

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14.2. UN proper shipping name

| | |
|---------------------------------------|---|
| Proper Shipping Name (ADR) | : COATING SOLUTION |
| Proper Shipping Name (IMDG) | : COATING SOLUTION |
| Proper Shipping Name (IATA) | : Coating solution |
| Proper Shipping Name (ADN) | : COATING SOLUTION |
| Proper Shipping Name (RID) | : COATING SOLUTION |
| Transport document description (ADR) | : UN 1139 COATING SOLUTION (Contains: Heptane, Methyl Ethyl Ketone, Petroleum Distillates), 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS |
| Transport document description (IMDG) | : UN 1139 COATING SOLUTION (Contains: Heptane, Methyl Ethyl Ketone, Petroleum Distillates), 3, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS |
| Transport document description (IATA) | : UN 1139 Coating solution (Contains: Heptane, Methyl Ethyl Ketone, Petroleum Distillates), 3, II, ENVIRONMENTALLY HAZARDOUS |
| Transport document description (ADN) | : UN 1139 COATING SOLUTION (Contains: Heptane, Methyl Ethyl Ketone, Petroleum Distillates), 3, II, ENVIRONMENTALLY HAZARDOUS |
| Transport document description (RID) | : UN 1139 COATING SOLUTION (Contains: Heptane, Methyl Ethyl Ketone, Petroleum Distillates), 3, II, ENVIRONMENTALLY HAZARDOUS |

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 3
Danger labels (ADR) : 3



IMDG

Transport hazard class(es) (IMDG) : 3
Danger labels (IMDG) : 3



IATA

Transport hazard class(es) (IATA) : 3
Danger labels (IATA) : 3



ADN

Transport hazard class(es) (ADN) : 3
Danger labels (ADN) : 3



RID

Transport hazard class(es) (RID) : 3
Danger labels (RID) : 3

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14.4. Packing group

| | |
|----------------------|------|
| Packing group (ADR) | : II |
| Packing group (IMDG) | : II |
| Packing group (IATA) | : II |
| Packing group (ADN) | : II |
| Packing group (RID) | : II |

14.5. Environmental hazards

| | |
|-------------------------------|--|
| Dangerous for the environment | : Yes |
| Marine pollutant | : Yes |
| Other information | : No supplementary information available |

14.6. Special precautions for user

Overland transport

| | |
|---|------------|
| Classification code (ADR) | : F1 |
| Special provisions (ADR) | : 640C |
| Limited quantities (ADR) | : 5I |
| Excepted quantities (ADR) | : E2 |
| Packing instructions (ADR) | : P001 |
| Mixed packing provisions (ADR) | : MP19 |
| Portable tank and bulk container instructions (ADR) | : T4 |
| Portable tank and bulk container special provisions (ADR) | : TP1, TP8 |
| Tank code (ADR) | : L1.5BN |
| Vehicle for tank carriage | : FL |
| Transport category (ADR) | : 2 |
| Special provisions for carriage - Operation (ADR) | : S2, S20 |
| Hazard identification number (Kemler No.) | : 33 |
| Orange plates | : |



| | |
|-------------------------------|--------|
| Tunnel restriction code (ADR) | : D/E |
| EAC code | : •3YE |

Transport by sea (IMDG)

| | |
|------------------------------------|--|
| Limited quantities (IMDG) | : 5 L |
| Excepted quantities (IMDG) | : E2 |
| Packing instructions (IMDG) | : P001 |
| IBC packing instructions (IMDG) | : IBC02 |
| Tank instructions (IMDG) | : T4 |
| Tank special provisions (IMDG) | : TP1, TP8 |
| EmS-No. (Fire) | : F-E |
| EmS-No. (Spillage) | : S-E |
| Stowage category (IMDG) | : B |
| Properties and observations (IMDG) | : Miscibility with water depends upon the composition. |

Air transport (IATA)

| | |
|--|--------|
| PCA Excepted quantities (IATA) | : E2 |
| PCA Limited quantities (IATA) | : Y341 |
| PCA limited quantity max net quantity (IATA) | : 1L |
| PCA packing instructions (IATA) | : 353 |
| PCA max net quantity (IATA) | : 5L |
| CAO packing instructions (IATA) | : 364 |
| CAO max net quantity (IATA) | : 60L |

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Special provisions (IATA) : A3
ERG code (IATA) : 3L

Inland waterway transport

Classification code (ADN) : F1
Special provisions (ADN) : 640C
Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E2
Equipment required (ADN) : PP, EX, A
Ventilation (ADN) : VE01
Number of blue cones/lights (ADN) : 1

Rail transport

Classification code (RID) : F1
Special provisions (RID) : 640C
Excepted quantities (RID) : E2
Packing instructions (RID) : P001
Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions (RID) : T4
Portable tank and bulk container special provisions (RID) : TP1, TP8
Tank codes for RID tanks (RID) : L1.5BN
Transport category (RID) : 2
Colis express (express parcels) (RID) : CE7
Hazard identification number (RID) : 33

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

Contains no substance(s) listed on the REACH Candidate List

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

All chemical substances in this product are listed as "Active" in the EPA (Environmental Protection Agency) "TSCA Inventory Notification (Active-Inactive) Requirements Rule" ("the Final Rule") of Feb. 2019, as amended Feb. 2021, or are otherwise exempt or regulated by other agencies such as FDA or FIFRA

Germany

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)
Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen : Distillates, petroleum, light distillate hydrotreating process, low-boiling, Naphtha, petroleum, hydrotreated light, Solvent naphtha, petroleum, light aliphatic, Benzene, Silica: Crystalline, quartz, Cumene, Stoddard solvent, Methyl ethyl ketoxime are listed
SZW-lijst van mutagene stoffen : Distillates, petroleum, light distillate hydrotreating process, low-boiling, Naphtha, petroleum, hydrotreated light, Solvent naphtha, petroleum, light aliphatic, Benzene, Stoddard solvent are listed
SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : Hexane is listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling : Toluene, Xylene are listed

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Denmark

| | |
|-----------------------------|--|
| Class for fire hazard | : Class I-1 |
| Store unit | : 1 liter |
| Classification remarks | : F <Flam. Liq. 2>; Emergency management guidelines for the storage of flammable liquids must be followed |
| Danish National Regulations | : Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal |

Switzerland

| | |
|--------------------|----------------------------|
| Storage class (LK) | : LK 3 - Flammable liquids |
|--------------------|----------------------------|

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

| Full text of H- and EUH-statements | |
|------------------------------------|--|
| Aquatic Chronic 2 | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 2 | Flammable liquids, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| Repr. 2 | Reproductive toxicity, Category 2 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| STOT RE 2 | Specific target organ toxicity – Repeated exposure, Category 2 |
| STOT SE 3 | Specific target organ toxicity – Single exposure, Category 3, Narcosis |
| H225 | Highly flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H411 | Toxic to aquatic life with long lasting effects. |

Abbreviations and acronyms

| | |
|---------|---|
| ACGIH | American Conference of Government Industrial Hygienists |
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| CAS-No. | Chemical Abstract Service number |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |

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| Abbreviations and acronyms | |
|----------------------------|---|
| DNEL | Derived-No Effect Level |
| EC50 | Median effective concentration |
| EC-No. | European Community number |
| ED | Endocrine disrupting properties |
| EN | European Standard |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LD50 | Median lethal dose |
| OEL | Occupational Exposure Limit |
| OSHA | Occupational Safety and Health Administration |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| STOT | Specific target organ toxicity |
| TRGS | Technical Rules for Hazardous Substances |
| vPvB | Very Persistent and Very Bioaccumulative |
| WGK | Water Hazard Class |

Data sources : Globally Harmonized System of Classification and Labelling of Chemicals (GHS).
Classification for the USA in accordance with 29 CFR 1910.1200 (2012).
Classification for the EU in accordance with Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
ECHA (European Chemicals Agency).

Training advice : Normal use of this product shall imply use in accordance with the instructions for use and corresponding product packaging.

Indication of changes:

Version 1.0: New SDS created

Revision 2.0: Updated EU SDS.

Other information : Author: WJS

SDS prepared for Plasti Dip International, Inc. by:

Pace Analytical Services, Inc.

Product Regulatory Services Group

1800 Elm Street

Minneapolis, MN 55414

United States

612-656-1175

paceSDS@pacelabs.com

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

| | | |
|----------------------------------|------|-----------|
| Flammable liquids, Category 2 | H225 | Test Data |
|----------------------------------|------|-----------|

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Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

| | | |
|--|------|------------------------------|
| Skin corrosion/irritation, Category 2 | H315 | Specific concentration limit |
| Serious eye damage/eye irritation, Category 2 | H319 | Specific concentration limit |
| Skin sensitisation, Category 1 | H317 | Specific concentration limit |
| Reproductive toxicity, Category 2 | H361 | Specific concentration limit |
| Specific target organ toxicity – Single exposure, Category 3, Narcosis | H336 | Specific concentration limit |
| Specific target organ toxicity – Repeated exposure, Category 2 | H373 | Specific concentration limit |
| Aspiration hazard, Category 1 | H304 | Specific concentration limit |
| Hazardous to the aquatic environment – Chronic Hazard, Category 2 | H411 | Specific concentration limit |

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.