



# Standard Thinner (UK)

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 23/03/2023 Revision date: 05/07/2024 Supersedes version of: 23/03/2026 Version: 5.2

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : Standard Thinner (UK)

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

##### Relevant identified uses

Main use category : Industrial use

#### 1.3. Details of the supplier of the safety data sheet

##### Supplier

A1 Motor Stores  
Unit 20 Waterfield Way  
LE10 3ER Sketchley Meadows Hinckley  
T 01455 637 031

#### 1.4. Emergency telephone number

| Country/Area   | Organisation/Company                                     | Address                                  | Emergency number   | Comment          |
|----------------|--|--|--|------------------|
| Ireland        | National Poisons Information Centre<br>Beaumont Hospital | PO Box 1297<br>Beaumont Road<br>9 Dublin | +353 1 809 2566<br>(Healthcare professionals-<br>24/7)<br>+353 1 809 2166 (public,<br>8am - 10pm, 7/7) |                  |
| United Kingdom | NHS 111/NHS 24/NHS Direct                                |  | 111<br>0845 4647   | or call a doctor |

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Flammable liquids, Category 2 H225  
Acute toxicity (inhal.), Category 4 H332  
Skin corrosion/irritation, Category 2 H315  
Serious eye damage/eye irritation, Category 2 H319  
Reproductive toxicity, Category 2 H361d  
Specific target organ toxicity – Single exposure, Category 2 H371  
Specific target organ toxicity – Single exposure, Category 3, H336  
Narcosis  
Specific target organ toxicity – Repeated exposure, Category 2 H373  
Aspiration hazard, Category 1 H304  
Hazardous to the aquatic environment – Chronic Hazard, H411  
Category 2

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

##### Adverse physicochemical, human health and environmental effects

Highly flammable liquid and vapour. Causes skin irritation. Causes serious eye irritation.

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### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS02

GHS07

GHS08

GHS09

Signal word (CLP) :

Danger

Contains :

Xylene; toluene; ethyl acetate

Hazard statements (CLP) :

H225 - Highly flammable liquid and vapour.  
H304 - May be fatal if swallowed and enters airways.  
H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.  
H332 - Harmful if inhaled.  
H336 - May cause drowsiness or dizziness.  
H361d - Suspected of damaging the unborn child.  
H371 - May cause damage to organs.  
H373 - May cause damage to organs through prolonged or repeated exposure.  
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) :

P240 - Ground and bond container and receiving equipment.  
P241 - Use explosion-proof electrical, lighting, ventilating equipment.  
P243 - Take action to prevent static discharges.  
P301+P310 - IF SWALLOWED: Immediately call a doctor.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P280 - Wear protective clothing, eye protection, face protection, protective gloves.  
Product may discolour and is normal for a recovered material'. This does not affect the performance of the product. Do not soak spray guns overnight.

Extra phrases :

### 2.3. Other hazards

Other hazards which do not result in classification : Product may discolour overtime. No change in effectiveness has been measured due to this and is considered normal.

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not 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

### 3.2. Mixtures

| Name   | Product identifier  | %      | Classification according to Regulation (EC) No. 1272/2008 [CLP]       |
|--|---|--------|---|
| Acetone<br>substance with national workplace exposure limit(s) (GB, NL); substance with a Community workplace exposure limit | CAS-No.: 67-64-1<br>EC-No.: 200-662-2<br>EC Index-No.: 606-001-00-8<br>REACH-no: 01-2119471330-49 | 10-30% | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336<br>EUH066 |

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| Name   | Product identifier   | %      | Classification according to Regulation (EC) No. 1272/2008 [CLP]  |
|--|--|--------|--|
| Xylene<br>substance with national workplace exposure limit(s) (GB, IE, NL); substance with a Community workplace exposure limit          | CAS-No.: 1330-20-7<br>EC-No.: 215-535-7<br>EC Index-No.: 601-022-00-9<br>REACH-no: 01-2119488216-32  | 10-30% | Flam. Liq. 3, H226<br>Acute Tox. 4 (Dermal), H312 (ATE=1100 mg/kg bodyweight)<br>Acute Tox. 4 (Inhalation), H332 (ATE=1.5 mg/l/4h)<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>STOT RE 2, H373<br>Asp. Tox. 1, H304 |
| Toluene<br>substance with national workplace exposure limit(s) (GB, NL); substance with a Community workplace exposure limit             | CAS-No.: 108-88-3<br>EC-No.: 203-625-9<br>EC Index-No.: 601-021-00-3<br>REACH-no: 01-2119471310-51   | 10-30% | Flam. Liq. 2, H225<br>Repr. 2, H361d<br>Asp. Tox. 1, H304<br>STOT RE 2, H373<br>Skin Irrit. 2, H315<br>STOT SE 3, H336   |
| Secondary Butyl Alcohol<br>substance with national workplace exposure limit(s) (GB)  | CAS-No.: 78-92-2<br>EC-No.: 201-158-5<br>EC Index-No.: 603-127-00-5<br>REACH-no: 01-2119475146-36    | 5-<10% | Flam. Liq. 3, H226<br>Eye Irrit. 2, H319<br>STOT SE 3, H336<br>STOT SE 3, H335   |
| Propan-2-ol<br>substance with national workplace exposure limit(s) (DE, GB, NL)  | CAS-No.: 67-63-0<br>EC-No.: 200-661-7<br>EC Index-No.: 603-117-00-0<br>REACH-no: 01-2119451558-25    | 5-<10% | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336  |
| Ethanol<br>substance with national workplace exposure limit(s) (GB)  | CAS-No.: 64-17-5<br>EC-No.: 200-578-6<br>EC Index-No.: 603-002-00-5<br>REACH-no: 01-2119457610-43    | 5-<10% | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319   |
| Hydrocarbons, C7, nalkanes, isoalkanes, cyclics<br>substance with national workplace exposure limit(s) (GB)                              | CAS-No.: 64742-49-0<br>EC-No.: 927-510-4<br>EC Index-No.: 649-328-00-1<br>REACH-no: 01-2119475515-33 | 5-<10% | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411   |
| Methyl Acetate<br>substance with national workplace exposure limit(s) (GB, IE)   | CAS-No.: 79-20-9<br>EC-No.: 201-185-2<br>EC Index-No.: 607-021-00-X<br>REACH-no: 01-2119459211-47    | 5-<10% | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336<br>EUH066  |
| Methyl Iso Butyl Ketone<br>substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit | CAS-No.: 108-10-1<br>EC-No.: 203-550-1<br>EC Index-No.: 606-004-00-4                                 | 5-<10% | Flam. Liq. 2, H225<br>Acute Tox. 4 (Inhalation), H332 (ATE=1.5 mg/l/4h)<br>Eye Irrit. 2, H319<br>Carc. 2, H351<br>STOT SE 3, H336<br>STOT SE 3, H335<br>EUH066   |
| Methyl Ethyl Ketone<br>substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit     | CAS-No.: 78-93-3<br>EC-No.: 201-159-0<br>EC Index-No.: 606-002-00-3<br>REACH-no: 01-2119457290-43    | 5-<10% | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336<br>EUH066  |

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|--|--|---------|---|
| N-Butyl Acetate<br>substance with national workplace exposure limit(s) (GB, IE); substance with a Community workplace exposure limit | CAS-No.: 123-86-4<br>EC-No.: 204-658-1<br>EC Index-No.: 607-025-00-1<br>REACH-no: 01-2119485493-29 | 5-<10%  | Flam. Liq. 3, H226<br>STOT SE 3, H336<br>EUH066   |
| Iso Propyl Acetate<br>substance with national workplace exposure limit(s) (GB, IE)   | CAS-No.: 108-21-4<br>EC-No.: 203-561-1<br>EC Index-No.: 607-024-00-6<br>REACH-no: 01-2119537214-46 | 5-<10%  | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336<br>EUH066   |
| ethyl acetate<br>substance with national workplace exposure limit(s) (GB, NL); substance with a Community workplace exposure limit   | CAS-No.: 141-78-6<br>EC-No.: 205-500-4<br>EC Index-No.: 607-022-00-5<br>REACH-no: 01-2119475103-46 | 5-<10%  | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336<br>EUH066   |
| methanol<br>substance with national workplace exposure limit(s) (GB, NL); substance with a Community workplace exposure limit        | CAS-No.: 67-56-1<br>EC-No.: 200-659-6<br>EC Index-No.: 603-001-00-X<br>REACH-no: 01-2119433307-44  | 2.5-<5% | Flam. Liq. 2, H225<br>Acute Tox. 3 (Inhalation), H331 (ATE=500 mg/m <sup>3</sup> )<br>Acute Tox. 3 (Dermal), H311 (ATE=300 mg/kg bodyweight)<br>Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg bodyweight)<br>STOT SE 1, H370 |
| Tetrahydrofuran<br>substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit     | CAS-No.: 109-99-9<br>EC-No.: 203-726-8<br>EC Index-No.: 603-025-00-0<br>REACH-no: 01-2119444314-46 | 0.5-<1% | Flam. Liq. 2, H225<br>Acute Tox. 4 (Oral), H302 (ATE=1650 mg/kg bodyweight)<br>Eye Irrit. 2, H319<br>Carc. 2, H351<br>STOT SE 3, H335<br>EUH019   |

### Specific concentration limits:

| Name            | Product identifier   | Specific concentration limits (%)                                   |
|-----------------|--|---|
| methanol        | CAS-No.: 67-56-1<br>EC-No.: 200-659-6<br>EC Index-No.: 603-001-00-X<br>REACH-no: 01-2119433307-44  | (3 ≤ C < 10) STOT SE 2; H371<br>(10 ≤ C ≤ 100) STOT SE 1; H370      |
| Tetrahydrofuran | CAS-No.: 109-99-9<br>EC-No.: 203-726-8<br>EC Index-No.: 603-025-00-0<br>REACH-no: 01-2119444314-46 | (25 ≤ C ≤ 100) STOT SE 3; H335<br>(25 ≤ C ≤ 100) Eye Irrit. 2; H319 |

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general

: Seek medical attention immediately. Never give anything by mouth to an unconscious person.

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|                                       |   |
|---------------------------------------|---|
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary.  |
| First-aid measures after skin contact | : Take off immediately all contaminated clothing. Repeated exposure may cause skin dryness or cracking. Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.                         |
| First-aid measures after eye contact  | : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists. |
| First-aid measures after ingestion    | : Get immediate medical advice/attention. Rinse mouth out with water. Drink plenty of water. Do NOT induce vomiting.  |

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

|                                     |  |
|-------------------------------------|--|
| Symptoms/effects after inhalation   | : May cause shortness of breath, tightness of the chest, a sore throat and cough. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Depression of the central nervous system, headaches, dizziness, drowsiness, loss of coordination. |
| Symptoms/effects after skin contact | : Causes skin irritation. Irritation (itching, redness, blistering). Repeated exposure may cause skin dryness or cracking.   |
| Symptoms/effects after eye contact  | : redness, itching, tears. Causes eye irritation. stinging.  |
| Symptoms/effects after ingestion    | : Ingestion may cause nausea and vomiting. May cause irritation to the digestive tract. Abdominal pain, nausea. Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.   |

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                |  |
|--------------------------------|--|
| Suitable extinguishing media   | : Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.               |

### 5.2. Special hazards arising from the substance or mixture

|  |   |
|--|---|
| Fire hazard                                      | : The vapours are denser than air and may travel along the ground. Distance ignition possible. Vapours may cause fire/explosion if source of ignition is present. Highly flammable liquid and vapour. |
| Explosion hazard                                 | : Vapours may form explosive mixture with air.  |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released.  |

### 5.3. Advice for firefighters

|                                |  |
|--------------------------------|--|
| Precautionary measures fire    | : Evacuate area.   |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

|                  |   |
|------------------|---|
| General measures | : Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Stop leak if safe to do so. |
|------------------|---|

#### For non-emergency personnel

|                      |   |
|----------------------|---|
| Emergency procedures | : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. |
|----------------------|---|

#### For emergency responders

|                      |   |
|----------------------|---|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
|----------------------|---|

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### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

- For containment : Cover spill with non combustible material, e.g.: sand, earth, vermiculite.
- Methods for cleaning up : Take up liquid spill into absorbent material. Absorb remaining liquid with sand or inert absorbent and remove to safe place. Notify authorities if product enters sewers or public waters.
- Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid contact with skin and eyes.
- Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Ground/bond container and receiving equipment.
- Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed.
- Storage area : Store away from heat.
- Special rules on packaging : Keep only in original container.
- Packaging materials : Keep only in the original container in a cool, well-ventilated place away from combustible materials.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### National occupational exposure and biological limit values

| Acetone (67-64-1)                             |                                       |
|---|---------------------------------------|
| United Kingdom - Occupational Exposure Limits |                                       |
| Local name                                    | Acetone                               |
| WEL TWA (OEL TWA)                             | 1210 mg/m <sup>3</sup>                |
|   | 500 ppm                               |
| WEL STEL (OEL STEL)                           | 3620 mg/m <sup>3</sup>                |
|   | 1500 ppm                              |
| Regulatory reference                          | EH40/2005 (Fourth edition, 2020). HSE |
| Xylene (1330-20-7)                            |                                       |
| Ireland - Occupational Exposure Limits        |                                       |
| OEL TWA                                       | 221 mg/m <sup>3</sup>                 |

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| Xylene (1330-20-7)                            |   |
|---|---|
|   | 50 ppm  |
| OEL STEL                                      | 442 mg/m <sup>3</sup>   |
|   | 100 ppm   |
| United Kingdom - Occupational Exposure Limits |   |
| Local name                                    | Xylene  |
| WEL TWA (OEL TWA)                             | 220 mg/m <sup>3</sup>   |
|   | 50 ppm  |
| WEL STEL (OEL STEL)                           | 441 mg/m <sup>3</sup>   |
|   | 100 ppm   |
| Remark  | Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity) |
| Regulatory reference                          | EH40/2005 (Fourth edition, 2020). HSE   |
| United Kingdom - Biological limit values      |   |
| Local name                                    | Xylene, o-, m-, p- or mixed isomers   |
| BMGV  | 650 mmol/mol Creatinine Parameter: methyl hippuric acid - Medium: urine - Sampling time: Post shift   |
| Regulatory reference                          | EH40/2005 (Fourth edition, 2020). HSE   |
| Toluene (108-88-3)                            |   |
| United Kingdom - Occupational Exposure Limits |   |
| Local name                                    | Toluene   |
| WEL TWA (OEL TWA)                             | 191 mg/m <sup>3</sup>   |
|   | 50 ppm  |
| WEL STEL (OEL STEL)                           | 384 mg/m <sup>3</sup>   |
|   | 100 ppm   |
| Remark  | Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity) |
| Regulatory reference                          | EH40/2005 (Fourth edition, 2020). HSE   |
| Secondary Butyl Alcohol (78-92-2)             |   |
| United Kingdom - Occupational Exposure Limits |   |
| Local name                                    | Butan-2-ol  |
| WEL TWA (OEL TWA)                             | 308 mg/m <sup>3</sup>   |
|   | 100 ppm   |
| WEL STEL (OEL STEL)                           | 462 mg/m <sup>3</sup>   |
|   | 150 ppm   |
| Regulatory reference                          | EH40/2005 (Fourth edition, 2020). HSE   |
| Propan-2-ol (67-63-0)                         |   |
| United Kingdom - Occupational Exposure Limits |   |
| Local name                                    | Propan-2-ol   |
| WEL TWA (OEL TWA)                             | 999 mg/m <sup>3</sup>   |

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| Propan-2-ol (67-63-0)  |   |
|--|---|
|  | 400 ppm   |
| WEL STEL (OEL STEL)  | 1250 mg/m <sup>3</sup>  |
|  | 500 ppm   |
| Regulatory reference   | EH40/2005 (Fourth edition, 2020). HSE   |
| Ethanol (64-17-5)  |   |
| United Kingdom - Occupational Exposure Limits                |   |
| Local name   | Ethanol   |
| WEL TWA (OEL TWA)  | 1920 mg/m <sup>3</sup>  |
|  | 1000 ppm  |
| Regulatory reference   | EH40/2005 (Fourth edition, 2020). HSE   |
| Hydrocarbons, C7, nalkanes, isoalkanes, cyclics (64742-49-0) |   |
| United Kingdom - Occupational Exposure Limits                |   |
| WEL TWA (OEL TWA)  | 2085 mg/m <sup>3</sup>  |
| Methyl Acetate (79-20-9)                                     |   |
| Ireland - Occupational Exposure Limits                       |   |
| OEL TWA  | 610 mg/m <sup>3</sup>   |
|  | 200 ppm   |
| OEL STEL   | 760 mg/m <sup>3</sup>   |
|  | 250 ppm   |
| United Kingdom - Occupational Exposure Limits                |   |
| Local name   | Methyl acetate  |
| WEL TWA (OEL TWA)  | 616 mg/m <sup>3</sup>   |
|  | 200 ppm   |
| WEL STEL (OEL STEL)  | 770 mg/m <sup>3</sup>   |
|  | 250 ppm   |
| Regulatory reference   | EH40/2005 (Fourth edition, 2020). HSE   |
| Methyl Iso Butyl Ketone (108-10-1)                           |   |
| United Kingdom - Occupational Exposure Limits                |   |
| Local name   | 4-Methylpentan-2-one  |
| WEL TWA (OEL TWA)  | 208 mg/m <sup>3</sup>   |
|  | 50 ppm  |
| WEL STEL (OEL STEL)  | 416 mg/m <sup>3</sup>   |
|  | 100 ppm   |
| Remark   | Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity) |
| Regulatory reference   | EH40/2005 (Fourth edition, 2020). HSE   |
| United Kingdom - Biological limit values                     |   |
| Local name   | 4-methylpentan-2-one  |

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| <b>Methyl Iso Butyl Ketone (108-10-1)</b>            |   |
|--|---|
| BMGV   | 20 µmol/l Parameter: 4-methylpentan-2-one - Medium: urine - Sampling time: Post shift   |
| Regulatory reference                                 | EH40/2005 (Fourth edition, 2020). HSE   |
| <b>Methyl Ethyl Ketone (78-93-3)</b>                 |   |
| <b>United Kingdom - Occupational Exposure Limits</b> |   |
| Local name   | Butan-2-one (methyl ethyl ketone)   |
| WEL TWA (OEL TWA)                                    | 600 mg/m <sup>3</sup>   |
|  | 200 ppm   |
| WEL STEL (OEL STEL)                                  | 899 mg/m <sup>3</sup>   |
|  | 300 ppm   |
| Remark   | Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity) |
| Regulatory reference                                 | EH40/2005 (Fourth edition, 2020). HSE   |
| <b>United Kingdom - Biological limit values</b>      |   |
| Local name   | Butan-2-one (methyl ethyl ketone)   |
| BMGV   | 70 µmol/l Parameter: butan-2-one - Medium: urine - Sampling time: Post shift  |
| Regulatory reference                                 | EH40/2005 (Fourth edition, 2020). HSE   |
| <b>N-Butyl Acetate (123-86-4)</b>                    |   |
| <b>Ireland - Occupational Exposure Limits</b>        |   |
| OEL STEL   | 723 mg/m <sup>3</sup>   |
|  | 150 ppm   |
| <b>United Kingdom - Occupational Exposure Limits</b> |   |
| Local name   | Butyl acetate   |
| WEL TWA (OEL TWA)                                    | 724 mg/m <sup>3</sup>   |
|  | 150 ppm   |
| WEL STEL (OEL STEL)                                  | 966 mg/m <sup>3</sup>   |
|  | 200 ppm   |
| Regulatory reference                                 | EH40/2005 (Fourth edition, 2020). HSE   |
| <b>Iso Propyl Acetate (108-21-4)</b>                 |   |
| <b>Ireland - Occupational Exposure Limits</b>        |   |
| OEL TWA  | 100 ppm   |
| <b>United Kingdom - Occupational Exposure Limits</b> |   |
| Local name   | Isopropyl acetate   |
| WEL STEL (OEL STEL)                                  | 849 mg/m <sup>3</sup>   |
|  | 200 ppm   |
| Regulatory reference                                 | EH40/2005 (Fourth edition, 2020). HSE   |
| <b>ethyl acetate (141-78-6)</b>                      |   |
| <b>United Kingdom - Occupational Exposure Limits</b> |   |
| Local name   | Ethyl acetate   |

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| ethyl acetate (141-78-6) |                                       |
|--------------------------|---------------------------------------|
| WEL TWA (OEL TWA)        | 734 mg/m <sup>3</sup>                 |
|                          | 200 ppm                               |
| WEL STEL (OEL STEL)      | 1468 mg/m <sup>3</sup>                |
|                          | 400 ppm                               |
| Regulatory reference     | EH40/2005 (Fourth edition, 2020). HSE |

| methanol (67-56-1)                            |   |
|---|---|
| United Kingdom - Occupational Exposure Limits |   |
| Local name                                    | Methanol  |
| WEL TWA (OEL TWA)                             | 266 mg/m <sup>3</sup>   |
|   | 200 ppm   |
| WEL STEL (OEL STEL)                           | 333 mg/m <sup>3</sup>   |
|   | 250 ppm   |
| Remark  | Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity) |
| Regulatory reference                          | EH40/2005 (Fourth edition, 2020). HSE   |

| Tetrahydrofuran (109-99-9)                    |   |
|---|---|
| United Kingdom - Occupational Exposure Limits |   |
| Local name                                    | Tetrahydrofuran   |
| WEL TWA (OEL TWA)                             | 150 mg/m <sup>3</sup>   |
|   | 50 ppm  |
| WEL STEL (OEL STEL)                           | 300 mg/m <sup>3</sup>   |
|   | 100 ppm   |
| Remark  | Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity) |
| Regulatory reference                          | EH40/2005 (Fourth edition, 2020). HSE   |

## 8.2. Exposure controls

### Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

### Personal protection equipment

#### Personal protective equipment symbol(s):



### Eye and face protection

#### Eye protection:

Safety glasses

| Eye protection                 |                      |                   |          |
|--------------------------------|----------------------|-------------------|----------|
| Type                           | Field of application | Characteristics   | Standard |
| Safety glasses, Safety goggles | Dust, Fine dust      | With side shields | EN 166   |

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### Skin protection

#### Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

Protective gloves

| Hand protection   |   |                   |                |             |          |
|-------------------|---|-------------------|----------------|-------------|----------|
| Type              | Material  | Permeation        | Thickness (mm) | Penetration | Standard |
| Disposable gloves | Nitrile rubber (NBR), Butyl rubber, Polyvinylchloride (PVC) | 5 (> 240 minutes) | 0.44           |             | EN 374-2 |

### Respiratory protection

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

| Respiratory protection |                   |  |          |
|------------------------|-------------------|--|----------|
| Device                 | Filter type       | Condition  | Standard |
| Aerosol mask           | Filter AX (brown) | Vapour protection, Protection for Liquid particles | EN 14387 |

### Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|   |                               |
|---|-------------------------------|
| Physical state                                  | : Liquid                      |
| Colour  | : Colourless.                 |
| Odour   | : Characteristic of solvents. |
| Odour threshold                                 | : Not available               |
| Melting point                                   | : Not applicable              |
| Freezing point                                  | : Not available               |
| Boiling point                                   | : 55 – 160 °C                 |
| Flammability                                    | : Not applicable              |
| Lower explosion limit                           | : 1 vol %                     |
| Upper explosion limit                           | : 36.5 vol %                  |
| Flash point                                     | : -20 °C                      |
| Auto-ignition temperature                       | : > 203 °C                    |
| Decomposition temperature                       | : Not available               |
| pH  | : 7                           |
| Viscosity, kinematic                            | : Not available               |
| Solubility                                      | : insoluble in water.         |
| Partition coefficient n-octanol/water (Log Kow) | : Not available               |
| Vapour pressure                                 | : Not available               |
| Vapour pressure at 50°C                         | : Not available               |
| Density   | : 0.8 – 0.9 g/cm <sup>3</sup> |
| Relative density                                | : Not available               |
| Relative vapour density at 20°C                 | : Not available               |
| Particle characteristics                        | : Not applicable              |

### 9.2. Other information

No additional information available

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Extremely flammable liquid and vapour.

#### 10.2. Chemical stability

May form flammable/explosive vapour-air mixture.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### 10.5. Incompatible materials

Oxidizing agent.

#### 10.6. Hazardous decomposition products

On exposure to high temperature, may decompose, releasing corrosive gases. Carbon dioxide. Carbon monoxide.

### 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) : Harmful if inhaled.

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|                     |               |
|---------------------|---------------|
| ATE CLP (gases)     | 30000 ppmv/4h |
| ATE CLP (vapours)   | 10.04 mg/l/4h |
| ATE CLP (dust,mist) | 10 mg/l/4h    |

#### Acetone (67-64-1)

|                                   |  |
|-----------------------------------|--|
| LD50 oral rat                     | 5800 mg/kg bodyweight Animal: rat, Animal sex: female            |
| LD50 oral                         | 5800 mg/kg bodyweight  |
| LD50 dermal rat                   | 15800 mg/kg  |
| LD50 dermal                       | > 15688 mg/kg bodyweight   |
| LC50 Inhalation - Rat             | 76 mg/l air Animal: rat, Animal sex: female, 95% CL: 65,2 - 88,4 |
| LC50 Inhalation - Rat (Dust/Mist) | 50100 mg/l   |

#### Xylene (1330-20-7)

|                                   |                         |
|-----------------------------------|-------------------------|
| LD50 oral                         | 3523 mg/kg              |
| LD50 dermal rabbit                | 12126 mg/kg             |
| LD50 dermal                       | > 5000 mg/kg bodyweight |
| LC50 Inhalation - Rat (Dust/Mist) | > 10000 mg/l            |

#### Toluene (108-88-3)

|             |                        |
|-------------|------------------------|
| LD50 oral   | 5580 mg/kg bodyweight  |
| LD50 dermal | 12124 mg/kg bodyweight |

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| <b>Toluene (108-88-3)</b>   |  |
|---|--|
| LC50 Inhalation - Rat (Dust/Mist)                                   | 28100 mg/l   |
| <b>Secondary Butyl Alcohol (78-92-2)</b>                            |  |
| LD50 oral rat   | > 2000 mg/kg   |
| LD50 dermal rat   | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other:                         |
| LD50 dermal   | > 2000 mg/kg (Guinea pig)  |
| LC50 Inhalation - Rat [ppm]   | 16000 ppm (Rat, male; 4 h; vapour)   |
| <b>Propan-2-ol (67-63-0)</b>  |  |
| LD50 oral   | 5840 mg/kg   |
| LD50 dermal   | 13900 mg/kg  |
| LC50 Inhalation - Rat (Dust/Mist)                                   | 25000 mg/l/4h  |
| <b>Ethanol (64-17-5)</b>  |  |
| LD50 oral rat   | 10470 mg/kg bw/day   |
| LD50 oral   | 8300 mg/kg bodyweight Animal: mouse, Remarks on results: other:  |
| LD50 dermal rat   | 15800 mg/kg  |
| LC50 Inhalation - Rat (Vapours)                                     | 20 mg/l/4h   |
| <b>Hydrocarbons, C7, nalkanes, isoalkanes, cyclics (64742-49-0)</b> |  |
| LD50 oral rat   | > 5840 mg/kg   |
| LD50 dermal rat   | > 2920 mg/kg   |
| LC50 Inhalation - Rat (Vapours)                                     | > 23.3 mg/l/4h   |
| <b>Methyl Acetate (79-20-9)</b>                                     |  |
| LD50 oral rat   | 6482 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity)                                       |
| LD50 dermal rat   | > 2000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
| LD50 dermal rabbit  | 5 g/kg   |
| LC50 Inhalation - Rat   | 49000 mg/m <sup>3</sup>  |
| <b>Methyl Iso Butyl Ketone (108-10-1)</b>                           |  |
| LD50 oral rat   | 2080 mg/kg   |
| LD50 dermal rabbit  | > 2000 mg/kg Dermal, Rabbit OECD 402   |
| <b>Methyl Ethyl Ketone (78-93-3)</b>                                |  |
| LD50 oral rat   | > 2193 mg/kg   |
| LD50 dermal rabbit  | > 5000 mg/kg (OECD Test Guideline 402)   |
| LC50 Inhalation - Rat   | 34 mg/l (Rat; 4 h)   |
| <b>N-Butyl Acetate (123-86-4)</b>                                   |  |
| LD50 oral rat   | 10768 mg/kg  |
| LD50 dermal rabbit  | > 17600 mg/kg  |
| LC50 Inhalation - Rat   | 23.4 mg/l  |

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| <b>Iso Propyl Acetate (108-21-4)</b>                                |   |
|---|---|
| LD50 oral rat   | 6750 mg/kg bodyweight Animal: rat, Animal sex: male, Remarks on results: other:   |
| LD50 dermal rabbit  | > 17400 mg/kg (Rabbit, male)  |
| LC50 Inhalation - Rat   | 50.6 mg/l (Rat, female; 8 h; vapour) (OECD Test Guideline 403)  |
| <b>ethyl acetate (141-78-6)</b>                                     |   |
| LD50 oral   | 4934 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 401 (Acute Oral Toxicity)   |
| LD50 dermal rabbit  | > 20000 mg/kg bodyweight Animal: rabbit, Animal sex: male   |
| LD50 dermal   | > 18000 mg/kg bodyweight  |
| LC50 Inhalation - Rat (Dust/Mist)                                   | 57700 mg/l  |
| <b>methanol (67-56-1)</b>   |   |
| LD50 oral   | 5628 mg/kg bodyweight   |
| LD50 dermal   | 15800 mg/kg bodyweight  |
| LC50 Inhalation - Rat (Dust/Mist)                                   | 85000 mg/l  |
| <b>Tetrahydrofuran (109-99-9)</b>                                   |   |
| LD50 oral rat   | 1650 mg/kg  |
| LD50 dermal rat   | > 2000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: other:, Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity), Guideline: other: |
| LC50 Inhalation - Rat [ppm]   | > 5000 ppm Animal: rat, Guideline: other:, Remarks on results: other:   |
| Skin corrosion/irritation   | : Causes skin irritation.<br>pH: 7  |
| <b>Acetone (67-64-1)</b>  |   |
| pH  | 5 – 6   |
| <b>Xylene (1330-20-7)</b>   |   |
| pH  | 7   |
| <b>Secondary Butyl Alcohol (78-92-2)</b>                            |   |
| pH  | 7   |
| <b>Propan-2-ol (67-63-0)</b>  |   |
| pH  | 5.5   |
| <b>Ethanol (64-17-5)</b>  |   |
| pH  | 7   |
| <b>Hydrocarbons, C7, nalkanes, isoalkanes, cyclics (64742-49-0)</b> |   |
| pH  | 7   |
| <b>Methyl Acetate (79-20-9)</b>                                     |   |
| pH  | 3.9   |
| <b>Methyl Iso Butyl Ketone (108-10-1)</b>                           |   |
| pH  | 4.5   |

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|   |   |
|---|---|
| <b>Methyl Ethyl Ketone (78-93-3)</b>                                |   |
| pH  | 7   |
| <b>N-Butyl Acetate (123-86-4)</b>                                   |   |
| pH  | 6.2 Temp.: 20 °C Concentration: 5,3 g/L   |
| <b>Iso Propyl Acetate (108-21-4)</b>                                |   |
| pH  | 6   |
| <b>ethyl acetate (141-78-6)</b>                                     |   |
| pH  | 4   |
| <b>methanol (67-56-1)</b>   |   |
| pH  | 7   |
| <b>Tetrahydrofuran (109-99-9)</b>                                   |   |
| pH  | 7 – 8 Temp.: 20 °C Concentration: 200 g/L |
| Serious eye damage/irritation                                       | : Causes serious eye irritation.<br>pH: 7 |
| <b>Acetone (67-64-1)</b>  |   |
| pH  | 5 – 6                                     |
| <b>Xylene (1330-20-7)</b>   |   |
| pH  | 7   |
| <b>Secondary Butyl Alcohol (78-92-2)</b>                            |   |
| pH  | 7   |
| <b>Propan-2-ol (67-63-0)</b>  |   |
| pH  | 5.5                                       |
| <b>Ethanol (64-17-5)</b>  |   |
| pH  | 7   |
| <b>Hydrocarbons, C7, nalkanes, isoalkanes, cyclics (64742-49-0)</b> |   |
| pH  | 7   |
| <b>Methyl Acetate (79-20-9)</b>                                     |   |
| pH  | 3.9                                       |
| <b>Methyl Iso Butyl Ketone (108-10-1)</b>                           |   |
| pH  | 4.5                                       |
| <b>Methyl Ethyl Ketone (78-93-3)</b>                                |   |
| pH  | 7   |
| <b>N-Butyl Acetate (123-86-4)</b>                                   |   |
| pH  | 6.2 Temp.: 20 °C Concentration: 5,3 g/L   |
| <b>Iso Propyl Acetate (108-21-4)</b>                                |   |
| pH  | 6   |

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|   |   |
|---|---|
| <b>ethyl acetate (141-78-6)</b>                                     |   |
| pH  | 4   |
| <b>methanol (67-56-1)</b>   |   |
| pH  | 7   |
| <b>Tetrahydrofuran (109-99-9)</b>                                   |   |
| pH  | 7 – 8 Temp.: 20 °C Concentration: 200 g/L   |
| Respiratory or skin sensitisation                                   | : Not classified  |
| Germ cell mutagenicity  | : Not classified  |
| Carcinogenicity   | : Not classified  |
| Reproductive toxicity   | : Suspected of damaging the unborn child.   |
| <b>Methyl Iso Butyl Ketone (108-10-1)</b>                           |   |
| NOAEL (animal/male, F0/P)   | 4093 mg/kg  |
| STOT-single exposure  | : May cause damage to organs. May cause drowsiness or dizziness.                        |
| <b>Acetone (67-64-1)</b>  |   |
| STOT-single exposure  | May cause drowsiness or dizziness.  |
| <b>Xylene (1330-20-7)</b>   |   |
| STOT-single exposure  | May cause respiratory irritation.   |
| <b>Toluene (108-88-3)</b>   |   |
| STOT-single exposure  | May cause drowsiness or dizziness.  |
| <b>Secondary Butyl Alcohol (78-92-2)</b>                            |   |
| STOT-single exposure  | May cause drowsiness or dizziness. May cause respiratory irritation.                    |
| <b>Propan-2-ol (67-63-0)</b>  |   |
| STOT-single exposure  | May cause drowsiness or dizziness.  |
| <b>Hydrocarbons, C7, nalkanes, isoalkanes, cyclics (64742-49-0)</b> |   |
| STOT-single exposure  | May cause drowsiness or dizziness.  |
| <b>Methyl Acetate (79-20-9)</b>                                     |   |
| STOT-single exposure  | May cause drowsiness or dizziness.  |
| <b>Methyl Iso Butyl Ketone (108-10-1)</b>                           |   |
| STOT-single exposure  | May cause drowsiness or dizziness. May cause respiratory irritation.                    |
| <b>Methyl Ethyl Ketone (78-93-3)</b>                                |   |
| STOT-single exposure  | May cause drowsiness or dizziness.  |
| <b>N-Butyl Acetate (123-86-4)</b>                                   |   |
| STOT-single exposure  | May cause drowsiness or dizziness.  |
| <b>Iso Propyl Acetate (108-21-4)</b>                                |   |
| NOAEL (oral, rat)   | 240 mg/kg bodyweight  |
| NOAEL (acute, oral, animal/male)                                    | > 480 mg/kg bodyweight (Rabbit)(Oral; 19 - 30 d)(EPA OTS 798.4900)Read-across (Analogy) |
| STOT-single exposure  | May cause drowsiness or dizziness.  |

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|   |   |
|---|---|
| <b>ethyl acetate (141-78-6)</b>                                     |   |
| STOT-single exposure  | May cause drowsiness or dizziness.  |
| <b>methanol (67-56-1)</b>   |   |
| STOT-single exposure  | Causes damage to organs (central nervous system, eyes) (if inhaled, in contact with skin).  |
| <b>Tetrahydrofuran (109-99-9)</b>                                   |   |
| STOT-single exposure  | May cause respiratory irritation.   |
| STOT-repeated exposure  | : May cause damage to organs through prolonged or repeated exposure.  |
| <b>Xylene (1330-20-7)</b>   |   |
| LOAEL (oral, rat, 90 days)  | 150 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EPA OPP 82-1 (90-Day Oral Toxicity) |
| STOT-repeated exposure  | May cause damage to organs through prolonged or repeated exposure.  |
| <b>Toluene (108-88-3)</b>   |   |
| STOT-repeated exposure  | May cause damage to organs through prolonged or repeated exposure.  |
| <b>Ethanol (64-17-5)</b>  |   |
| NOAEL (subchronic, oral, animal/male, 90 days)                      | < 9700 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents)  |
| NOAEL (subchronic, oral, animal/female, 90 days)                    | > 9400 mg/kg bodyweight Animal: mouse, Animal sex: female, Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents)  |
| <b>Hydrocarbons, C7, nalkanes, isoalkanes, cyclics (64742-49-0)</b> |   |
| NOAEC (inhalation, rat, vapour, 90 days)                            | 24.3 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)   |
| <b>Methyl Iso Butyl Ketone (108-10-1)</b>                           |   |
| LOAEL (oral, rat, 90 days)  | 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)  |
| NOAEL (oral, rat, 90 days)  | 250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)   |
| NOAEC (inhalation, rat, vapour, 90 days)                            | 4106 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)   |
| <b>Methyl Ethyl Ketone (78-93-3)</b>                                |   |
| NOAEC (inhalation, rat, gas, 90 days)                               | 5041 ppmv/6h/day 4 month; 6 hours/day) (OECD Test Guideline 413); No adverse effect has been observed with repeated intake in toxicity tests.   |
| <b>N-Butyl Acetate (123-86-4)</b>                                   |   |
| LOAEL (oral, rat, 90 days)  | 500 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 798.2650 (90-Day Oral Toxicity in Rodents)   |
| NOAEL (oral, rat, 90 days)  | 125 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 798.2650 (90-Day Oral Toxicity in Rodents)   |
| NOAEC (inhalation, rat, gas, 90 days)                               | 500 ppmv/6h/day   |
| <b>Iso Propyl Acetate (108-21-4)</b>                                |   |
| LOAEC (inhalation, rat, vapour, 90 days)                            | 21409 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Guideline: EU Method B.29 (Sub-Chronic Inhalation Toxicity: 90-Day Study)     |

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| ethyl acetate (141-78-6)   |  |
|----------------------------|--|
| LOAEL (oral, rat, 90 days) | 3600 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 795.2600 (Subchronic Oral Toxicity Test) |
| NOAEL (oral, rat, 90 days) | 900 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 795.2600 (Subchronic Oral Toxicity Test)  |

Aspiration hazard : May be fatal if swallowed and enters airways.

| Acetone (67-64-1)    |                          |
|----------------------|--------------------------|
| Viscosity, kinematic | 0.417 mm <sup>2</sup> /s |

| Secondary Butyl Alcohol (78-92-2) |                                 |
|-----------------------------------|---------------------------------|
| Viscosity, kinematic              | 2.28 mm <sup>2</sup> /s (40 °C) |

| Propan-2-ol (67-63-0) |                          |
|-----------------------|--------------------------|
| Viscosity, kinematic  | 3.115 mm <sup>2</sup> /s |

| Hydrocarbons, C7, nalkanes, isoalkanes, cyclics (64742-49-0) |                                |
|--|--------------------------------|
| Viscosity, kinematic   | 0.55 mm <sup>2</sup> /s (40°C) |

| Methyl Acetate (79-20-9) |                          |
|--------------------------|--------------------------|
| Viscosity, kinematic     | 0.391 mm <sup>2</sup> /s |

| Methyl Iso Butyl Ketone (108-10-1) |                          |
|------------------------------------|--------------------------|
| Viscosity, kinematic               | 0.689 mm <sup>2</sup> /s |

| Methyl Ethyl Ketone (78-93-3) |                          |
|-------------------------------|--------------------------|
| Viscosity, kinematic          | 0.519 mm <sup>2</sup> /s |

| N-Butyl Acetate (123-86-4) |  |
|----------------------------|--|
| Viscosity, kinematic       | 0.83 mm <sup>2</sup> /s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm <sup>2</sup> /s)' |

| Tetrahydrofuran (109-99-9) |                          |
|----------------------------|--------------------------|
| Viscosity, kinematic       | 0.539 mm <sup>2</sup> /s |

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

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.

| Acetone (67-64-1)                  |           |
|------------------------------------|-----------|
| LC50 - Fish [1]                    | 5540 mg/l |
| EC50 - Other aquatic organisms [1] | 8800 mg/l |
| EC50 - Other aquatic organisms [2] | 3400 mg/l |
| EC50 96h - Algae [1]               | 430 mg/l  |

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| <b>Acetone (67-64-1)</b>  |   |
|---|---|
| LOEC (chronic)  | > 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d'  |
| NOEC (chronic)  | ≥ 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d'  |
| <b>Xylene (1330-20-7)</b>   |   |
| LC50 - Fish [1]   | 2.6 mg/l  |
| LC50 - Fish [2]   | 2.661 – 4.093 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])  |
| EC50 - Crustacea [1]  | > 3.4 mg/l Test organisms (species): Ceriodaphnia dubia   |
| EC50 - Crustacea [2]  | 1 mg/l  |
| EC50 - Other aquatic organisms [1]                                  | 350 mg/l waterflea  |
| EC50 72h - Algae [1]  | 2.2 mg/l  |
| 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'                                |
| NOEC chronic crustacea  | 0.96 mg/l   |
| EC10, algae, long term, algae                                       | 0.44 mg/l   |
| <b>Toluene (108-88-3)</b>   |   |
| LC50 - Fish [1]   | 5.5 mg/l  |
| EC50 - Other aquatic organisms [1]                                  | 3.78 mg/l waterflea   |
| <b>Secondary Butyl Alcohol (78-92-2)</b>                            |   |
| LC50 - Fish [1]   | 2993 mg/l Test organisms (species): Pimephales promelas   |
| LC50 - Fish [2]   | > 100 mg/l (Pimephales promelas; 96 h) (semi-static test)   |
| EC50 - Crustacea [1]  | 308 mg/l Test organisms (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) |
| LOEC (acute)  | 500 mg/l (Pseudomonas putida; 16 h)   |
| <b>Propan-2-ol (67-63-0)</b>  |   |
| LC50 - Fish [1]   | 9640 mg/l   |
| LC50 - Fish [2]   | 9640 mg/l Test organisms (species): Pimephales promelas   |
| EC50 - Other aquatic organisms [1]                                  | 13299 mg/l waterflea  |
| EC50 - Other aquatic organisms [2]                                  | > 1000 mg/l   |
| <b>Ethanol (64-17-5)</b>  |   |
| LC50 - Fish [1]   | 14.2 g/l Test organisms (species): Pimephales promelas  |
| LC50 - Fish [2]   | > 100 mg/l Leuciscus idus (Golden orfe)   |
| EC50 72h - Algae [1]  | 275 mg/l (Chlorella vulgaris)   |
| NOEC (chronic)  | 9.6 mg/l Test organisms (species): Daphnia magna Duration: '9 d'  |
| NOEC chronic fish   | 9.6 mg/l Daphnia magna  |
| <b>Hydrocarbons, C7, nalkanes, isoalkanes, cyclics (64742-49-0)</b> |   |
| LC50 - Fish [1]   | > 13.4 mg/l Oncorhynchus mykiss   |

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| <b>Hydrocarbons, C7, nalkanes, isoalkanes, cyclics (64742-49-0)</b> |   |
|---|---|
| LC50 - Other aquatic organisms [1]                                  | 3 mg/l Daphnia - Daphnia magna 48 hours   |
| EC50 72h - Algae [1]  | 10 mg/l Algae - Raphidocelis  |
| 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'  |
| NOEC chronic fish   | 1.534 mg/l  |
| <b>Methyl Acetate (79-20-9)</b>                                     |   |
| LC50 - Fish [1]   | 250 – 350 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)   |
| LC50 - Fish [2]   | 295 – 348 mg/l Species: Pimephales promelas   |
| EC50 - Crustacea [1]  | 1026.7 mg/l Test organisms (species): Daphnia magna   |
| EC50 72h - Algae [1]  | > 120 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)                                     |
| ErC50 algae   | > 120 mg/l (Desmodesmus subspicatus) (72h) (OECD 201)   |
| <b>Methyl Iso Butyl Ketone (108-10-1)</b>                           |   |
| LC50 - Fish [1]   | > 179 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)   |
| EC50 - Crustacea [1]  | > 200 mg/l Test organisms (species): Daphnia magna  |
| NOEC chronic crustacea  | 30 mg/l   |
| <b>Methyl Ethyl Ketone (78-93-3)</b>                                |   |
| LC50 - Fish [1]   | 2993 mg/l Test organisms (species): Pimephales promelas   |
| EC50 - Crustacea [1]  | 308 mg/l Test organisms (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) |
| <b>N-Butyl Acetate (123-86-4)</b>                                   |   |
| LC50 - Fish [1]   | 18 mg/l Test organisms (species): Pimephales promelas   |
| LC50 - Fish [2]   | 100 mg/l Species: Lepomis macrochirus [static]  |
| EC50 - Crustacea [1]  | 44 mg/l Test organisms (species): Daphnia sp.   |
| EC50 72h - Algae [1]  | 397 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)  |
| EC50 72h - Algae [2]  | 246 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)  |
| EC50 96h - Algae [1]  | 674.7 mg/l (Species: Desmodesmus subspicatus)   |
| LOEC (chronic)  | 47.6 mg/l Test organisms (species): Daphnia magna Duration: '21 d'  |
| NOEC (chronic)  | 23.2 mg/l Test organisms (species): Daphnia magna Duration: '21 d'  |
| <b>Iso Propyl Acetate (108-21-4)</b>                                |   |
| LC50 - Fish [1]   | 400 mg/l Test organisms (species): Pimephales promelas  |
| LC50 - Other aquatic organisms [1]                                  | > 1000 mg/l (Daphnia magna (Water flea); 48 h) (static test; EPA 600/3-75/009)  |
| EC50 - Crustacea [1]  | 110 mg/l (Artemia salina; 48 h) (static test)   |
| EC50 - Other aquatic organisms [1]                                  | 110 mg/l Test organisms (species): Artemia salina   |

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| <b>Iso Propyl Acetate (108-21-4)</b>                                |  |
|---|--|
| EC50 72h - Algae [1]  | 370 mg/l (Pseudokirchneriella subcapitata (green algae); 72 h) (static test; End point: Growth rate; OECD Test Guideline 201)Read-across (Analogy) |
| NOEC chronic algae  | 95 mg/l (Pseudokirchneriella subcapitata (green algae); 72 h) (static test; End point: Growth rate; OECD Test Guideline 201)Read-across (Analogy)  |
| <b>ethyl acetate (141-78-6)</b>                                     |  |
| LC50 - Fish [1]   | 230 mg/l Test organisms (species): Pimephales promelas   |
| EC50 - Other aquatic organisms [1]                                  | 717 mg/l waterflea   |
| EC50 - Other aquatic organisms [2]                                  | 3300 mg/l  |
| NOEC (chronic)  | 2.4 mg/l Test organisms (species): Daphnia magna Duration: '21 d'  |
| <b>methanol (67-56-1)</b>   |  |
| LC50 - Fish [1]   | 10800 mg/l   |
| EC50 - Other aquatic organisms [1]                                  | 10000 mg/l waterflea   |
| EC50 - Other aquatic organisms [2]                                  | 12000 mg/l   |
| EC50 96h - Algae [1]  | 22000 mg/l   |
| <b>Tetrahydrofuran (109-99-9)</b>                                   |  |
| LC50 - Fish [1]   | 2160 mg/l Test organisms (species): Pimephales promelas  |
| EC50 - Crustacea [1]  | 3485 mg/l  |
| EC50 96h - Algae [1]  | 3700 mg/l  |
| NOEC chronic fish   | 216 mg/l Test organisms (species): Pimephales promelas Duration: '33 d'  |
| <b>12.2. Persistence and degradability</b>                          |  |
| <b>Standard Thinner (UK)</b>  |  |
| Persistence and degradability                                       | Not rapidly degradable   |
| <b>Acetone (67-64-1)</b>  |  |
| Persistence and degradability                                       | Not rapidly degradable   |
| <b>Xylene (1330-20-7)</b>   |  |
| Persistence and degradability                                       | Not rapidly degradable   |
| <b>Toluene (108-88-3)</b>   |  |
| Persistence and degradability                                       | Not rapidly degradable   |
| <b>Secondary Butyl Alcohol (78-92-2)</b>                            |  |
| Persistence and degradability                                       | Not rapidly degradable   |
| Biodegradation  | 98 % (Exposure Time: 5 d)Readily biodegradable.  |
| <b>Propan-2-ol (67-63-0)</b>  |  |
| Persistence and degradability                                       | Not rapidly degradable   |
| <b>Ethanol (64-17-5)</b>  |  |
| Persistence and degradability                                       | Not rapidly degradable   |
| <b>Hydrocarbons, C7, nalkanes, isoalkanes, cyclics (64742-49-0)</b> |  |
| Persistence and degradability                                       | Not rapidly degradable   |

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| <b>Hydrocarbons, C7, nalkanes, isoalkanes, cyclics (64742-49-0)</b> |   |
|---|---|
| Biodegradation  | 98 % Readily - 28 days  |
| <b>Methyl Acetate (79-20-9)</b>                                     |   |
| Persistence and degradability                                       | Not rapidly degradable  |
| Biodegradation  | 70 % (28d) (OECD 301D)  |
| <b>Methyl Iso Butyl Ketone (108-10-1)</b>                           |   |
| Persistence and degradability                                       | Not rapidly degradable  |
| <b>Methyl Ethyl Ketone (78-93-3)</b>                                |   |
| Persistence and degradability                                       | Not rapidly degradable  |
| <b>N-Butyl Acetate (123-86-4)</b>                                   |   |
| Persistence and degradability                                       | Not rapidly degradable  |
| <b>Iso Propyl Acetate (108-21-4)</b>                                |   |
| Persistence and degradability                                       | Not rapidly degradable  |
| Biodegradation  | 76 % (aerobic; activated sludge; Related to: O2 consumption; Exposure Time: 20 d)(OECD Test Guideline 301D)Readily biodegradable. |
| <b>ethyl acetate (141-78-6)</b>                                     |   |
| Persistence and degradability                                       | Not rapidly degradable  |
| <b>methanol (67-56-1)</b>   |   |
| Persistence and degradability                                       | Not rapidly degradable  |
| <b>Tetrahydrofuran (109-99-9)</b>                                   |   |
| Persistence and degradability                                       | Not rapidly degradable  |
| <b>12.3. Bioaccumulative potential</b>                              |   |
| <b>Acetone (67-64-1)</b>  |   |
| Partition coefficient n-octanol/water (Log Pow)                     | -0.24   |
| <b>Xylene (1330-20-7)</b>   |   |
| Partition coefficient n-octanol/water (Log Pow)                     | 3.1   |
| <b>Toluene (108-88-3)</b>   |   |
| Partition coefficient n-octanol/water (Log Pow)                     | 2.73  |
| <b>Secondary Butyl Alcohol (78-92-2)</b>                            |   |
| Partition coefficient n-octanol/water (Log Pow)                     | 0.65 (25 °C), Not expected to be bioaccumulative  |
| <b>Propan-2-ol (67-63-0)</b>  |   |
| Partition coefficient n-octanol/water (Log Pow)                     | 0.05  |
| <b>Ethanol (64-17-5)</b>  |   |
| Partition coefficient n-octanol/water (Log Pow)                     | 0.31  |
| <b>Hydrocarbons, C7, nalkanes, isoalkanes, cyclics (64742-49-0)</b> |   |
| Partition coefficient n-octanol/water (Log Pow)                     | 2.2 – 5.2   |

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| Methyl Acetate (79-20-9)                        |                 |
|---|-----------------|
| Partition coefficient n-octanol/water (Log Pow) | 0.18            |
| Methyl Iso Butyl Ketone (108-10-1)              |                 |
| Partition coefficient n-octanol/water (Log Pow) | 1.9             |
| Methyl Ethyl Ketone (78-93-3)                   |                 |
| Partition coefficient n-octanol/water (Log Kow) | 0.3 (40 °C)     |
| N-Butyl Acetate (123-86-4)                      |                 |
| Partition coefficient n-octanol/water (Log Pow) | 2.3 (OECD 117)  |
| Partition coefficient n-octanol/water (Log Kow) | 1.81 (at 23 °C) |
| Iso Propyl Acetate (108-21-4)                   |                 |
| Partition coefficient n-octanol/water (Log Pow) | 1.18            |
| ethyl acetate (141-78-6)                        |                 |
| Partition coefficient n-octanol/water (Log Pow) | 0.7             |
| methanol (67-56-1)                              |                 |
| Partition coefficient n-octanol/water (Log Pow) | -0.7            |

### 12.4. Mobility in soil

| Methyl Ethyl Ketone (78-93-3) |                                     |
|-------------------------------|-------------------------------------|
| Surface tension               | 24.8 mN/m (20 °C)                   |
| N-Butyl Acetate (123-86-4)    |                                     |
| Surface tension               | 61.3 mN/m (1g/l - 20 °C - OECD 115) |

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

| Secondary Butyl Alcohol (78-92-2) |                                   |
|-----------------------------------|-----------------------------------|
| Other information                 | Avoid release to the environment. |

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Additional information : Flammable vapours may accumulate in the container.

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HP Code

: HP3 - "Flammable:"  
 – flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C;  
 – flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;  
 – flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;  
 – flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa;  
 – water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;  
 – other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste.  
 HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration.  
 HP6 - "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure.  
 HP7 - "Carcinogenic:" waste which induces cancer or increases its incidence  
 HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.  
 HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment  
 HP15 - "Waste capable of exhibiting a hazardous property listed above not directly displayed by the original waste".

### SECTION 14: Transport information

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

| ADR   | IMDG  | IATA  | ADN   | RID   |
|---|---|---|---|---|
| <b>14.1. UN number or ID number</b>   |   |   |   |   |
| UN 1263   | UN 1263   | UN 1263   | UN 1263   | UN 1263   |
| <b>14.2. UN proper shipping name</b>  |   |   |   |   |
| PAINT / PAINT RELATED MATERIAL  | PAINT RELATED MATERIAL  | Paint   | PAINT   | PAINT   |
| <b>Transport document description</b>   |   |   |   |   |
| UN 1263 PAINT / PAINT RELATED MATERIAL, 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS | UN 1263 PAINT RELATED MATERIAL, 3, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS | UN 1263 Paint, 3, II, ENVIRONMENTALLY HAZARDOUS | UN 1263 PAINT, 3, II, ENVIRONMENTALLY HAZARDOUS | UN 1263 PAINT, 3, II, ENVIRONMENTALLY HAZARDOUS |
| <b>14.3. Transport hazard class(es)</b>   |   |   |   |   |
| 3   | 3   | 3   | 3   | 3   |
|   |   |   |   |   |
| <b>14.4. Packing group</b>  |   |   |   |   |
| II  | II  | II  | II  | II  |

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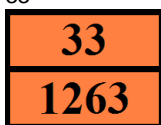
according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| ADR                                    | IMDG  | IATA                               | ADN                                | RID                                |
|--|---|------------------------------------|------------------------------------|------------------------------------|
| <b>14.5. Environmental hazards</b>     |   |                                    |                                    |                                    |
| Dangerous for the environment: Yes     | Dangerous for the environment: Yes<br>Marine pollutant: Yes<br>EmS-No. (Fire): F-E<br>EmS-No. (Spillage): S-E | Dangerous for the environment: Yes | Dangerous for the environment: Yes | Dangerous for the environment: Yes |
| No supplementary information available |   |                                    |                                    |                                    |

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR) : F1  
Special provisions (ADR) : 163, 367, 640C, 650  
Limited quantities (ADR) : 5I  
Excepted quantities (ADR) : E2  
Packing instructions (ADR) : P001  
Special packing provisions (ADR) : PP1  
Mixed packing provisions (ADR) : MP19  
Portable tank and bulk container instructions (ADR) : T4  
Portable tank and bulk container special provisions (ADR) : TP1, TP8, TP28  
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

Special provisions (IMDG) : 163, 367  
Limited quantities (IMDG) : 5 L  
Excepted quantities (IMDG) : E2  
Packing instructions (IMDG) : P001  
Special packing provisions (IMDG) : PP1  
IBC packing instructions (IMDG) : IBC02  
Tank instructions (IMDG) : T4  
Tank special provisions (IMDG) : TP1, TP8, TP28  
Stowage category (IMDG) : B  
Properties and observations (IMDG) : Miscibility with water depends upon the composition.

#### Air transport

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  
Special provisions (IATA) : A3, A72, A192  
ERG code (IATA) : 3L

#### Inland waterway transport

Classification code (ADN) : F1  
Special provisions (ADN) : 163, 367, 640C, 650

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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) : 163, 367, 640C, 650  
Limited quantities (RID) : 5L  
Excepted quantities (RID) : E2  
Packing instructions (RID) : P001  
Special packing provisions (RID) : PP1  
Mixed packing provisions (RID) : MP19  
Portable tank and bulk container instructions (RID) : T4  
Portable tank and bulk container special provisions (RID) : TP1, TP8, TP28  
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

#### EU-Regulations

##### REACH Annex XVII (Restriction List)

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

##### REACH Annex XIV (Authorisation List)

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

##### REACH Candidate List (SVHC)

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

##### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

##### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

##### Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

##### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

##### Explosives Precursors Regulation (2019/1148)

Contains substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### ANNEX II REPORTABLE EXPLOSIVES PRECURSORS

List of substances on their own or in mixtures or in substances for which suspicious transactions and significant disappearances and thefts are to be reported within 24 hours.

| Name    | CAS-No. | Combined Nomenclature code (CN) | Combined Nomenclature code for mixture without constituents which would determine classification under another CN code |
|---------|---------|---------------------------------|--|
| Acetone | 67-64-1 | 2914 11 00                      | ex 3824 99 92  |

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### Drug Precursors Regulation (273/2004)

Contains substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

| Name              | CN designation | CAS-No.  | CN code    | Category, Subcategory | Threshold | Annex   |
|-------------------|----------------|----------|------------|-----------------------|-----------|---------|
| Acetone           |                | 67-64-1  | 2914 11 00 | Category 3            |           | Annex I |
| Toluene           |                | 108-88-3 | 2902 30 00 | Category 3            |           | Annex I |
| Methylethylketone | Butanone       | 78-93-3  | 2914 12 00 | Category 3            |           | Annex I |

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Indication of changes

| Section | Changed item          | Comments        |
|---------|-----------------------|-----------------|
|         | Revision date         | <b>Modified</b> |
|         | Supersedes version of | <b>Modified</b> |
| 2.2     | Extra phrases         | <b>Modified</b> |

### Abbreviations and acronyms:

|        |   |
|--------|---|
| 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             |
| ATE    | Acute Toxicity Estimate   |
| BCF    | Bioconcentration factor   |
| BLV    | Biological limit value  |
| BOD    | Biochemical oxygen demand (BOD)   |
| COD    | Chemical oxygen demand (COD)  |
| DMEL   | Derived Minimal Effect level  |
| DNEL   | Derived-No Effect Level   |
| EC-No. | European Community number   |
| EC50   | Median effective concentration  |
| EN     | European Standard   |
| IARC   | International Agency for Research on Cancer   |
| IATA   | International Air Transport Association   |
| IMDG   | International Maritime Dangerous Goods  |
| LC50   | Median lethal concentration   |
| LD50   | Median lethal dose  |
| LOAEL  | Lowest Observed Adverse Effect Level  |
| NOAEC  | No-Observed Adverse Effect Concentration  |
| NOAEL  | No-Observed Adverse Effect Level  |
| NOEC   | No-Observed Effect Concentration  |

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### Abbreviations and acronyms:

|         |  |
|---------|--|
| OECD    | Organisation for Economic Co-operation and Development                       |
| OEL     | Occupational Exposure Limit  |
| PBT     | Persistent Bioaccumulative Toxic   |
| PNEC    | Predicted No-Effect Concentration  |
| RID     | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS     | Safety Data Sheet  |
| STP     | Sewage treatment plant   |
| ThOD    | Theoretical oxygen demand (ThOD)   |
| TLM     | Median Tolerance Limit   |
| VOC     | Volatile Organic Compounds   |
| CAS-No. | Chemical Abstract Service number   |
| N.O.S.  | Not Otherwise Specified  |
| vPvB    | Very Persistent and Very Bioaccumulative                                     |
| ED      | Endocrine disruptor  |

### Full text of H- and EUH-statements:

|                           |  |
|---------------------------|--|
| Acute Tox. 3 (Dermal)     | Acute toxicity (dermal), Category 3                                    |
| Acute Tox. 3 (Inhalation) | Acute toxicity (inhal.), Category 3                                    |
| Acute Tox. 3 (Oral)       | Acute toxicity (oral), Category 3                                      |
| Acute Tox. 4 (Dermal)     | Acute toxicity (dermal), Category 4                                    |
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4                                    |
| Acute Tox. 4 (Oral)       | Acute toxicity (oral), Category 4                                      |
| Aquatic Chronic 2         | Hazardous to the aquatic environment – Chronic Hazard, Category 2      |
| Asp. Tox. 1               | Aspiration hazard, Category 1  |
| Carc. 2                   | Carcinogenicity, Category 2  |
| Eye Irrit. 2              | Serious eye damage/eye irritation, Category 2                          |
| Flam. Liq. 2              | Flammable liquids, Category 2  |
| Flam. Liq. 3              | Flammable liquids, Category 3  |
| Repr. 2                   | Reproductive toxicity, Category 2                                      |
| Skin Irrit. 2             | Skin corrosion/irritation, Category 2                                  |
| STOT RE 2                 | Specific target organ toxicity – Repeated exposure, Category 2         |
| STOT SE 1                 | Specific target organ toxicity – single exposure, Category 1           |
| STOT SE 2                 | Specific target organ toxicity – Single exposure, Category 2           |
| STOT SE 3                 | Specific target organ toxicity – Single exposure, Category 3, Narcosis |
| H225                      | Highly flammable liquid and vapour.                                    |
| H226                      | Flammable liquid and vapour.   |
| H301                      | Toxic if swallowed.  |
| H302                      | Harmful if swallowed.  |
| H304                      | May be fatal if swallowed and enters airways.                          |

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## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Full text of H- and EUH-statements: |  |
|-------------------------------------|--|
| H311                                | Toxic in contact with skin.  |
| H312                                | Harmful in contact with skin.                                      |
| H315                                | Causes skin irritation.  |
| H319                                | Causes serious eye irritation.                                     |
| H331                                | Toxic if inhaled.  |
| H332                                | Harmful if inhaled.  |
| H335                                | May cause respiratory irritation.                                  |
| H336                                | May cause drowsiness or dizziness.                                 |
| H351                                | Suspected of causing cancer.                                       |
| H361d                               | Suspected of damaging the unborn child.                            |
| H370                                | Causes damage to organs.   |
| H371                                | May cause damage to organs.  |
| H373                                | May cause damage to organs through prolonged or repeated exposure. |
| H411                                | Toxic to aquatic life with long lasting effects.                   |
| EUH019                              | May form explosive peroxides.                                      |
| EUH066                              | Repeated exposure may cause skin dryness or cracking.              |

The classification complies with : ATP 12

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.