

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

#### 1.1. Product identifier

|               |  |
|---------------|--|
| Product form  | : Mixture  |
| Product name  | : Aerospray® Hematology Pro Reagent C, Eosin Stain       |
| Product code  | : SS-071C, SS-071C-EU, or SS-171C2 diluted with methanol |
| Product group | : Trade product  |

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

##### 1.2.1. Relevant identified uses

|                                  |                                   |
|----------------------------------|-----------------------------------|
| Industrial/Professional use spec | : For professional use only       |
| Use of the substance/mixture     | : Hematology Pro staining reagent |
| Use of the substance/mixture     | : Laboratory chemical             |

##### 1.2.2. Uses advised against

No additional information available

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

ELITechGroup Inc.  
370 West 1700 South  
US- 84321 Logan, UT – Cache  
USA  
T +1 (435) 752-6011 - F +1 (435) 752-4127  
[qara\\_ebs@elitechgroup.com](mailto:qara_ebs@elitechgroup.com) - [www.elitechgroup.com](http://www.elitechgroup.com)

#### 1.4. Emergency telephone number

|                  |   |
|------------------|---|
| Emergency number | : Contact your distributor or poison control center in your country.<br>InfoTrac Emergency Response: Calls within the USA, phone: 1-800-535-5053. Calls outside the USA, phone: +1 352-323-3500 (call collect)<br>Customer ID: #90104 (NOTE: this number is required when a customer calls into either phone number above). |
|------------------|---|

### SECTION 2: Hazards identification

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

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

|  |      |
|--|------|
| Flammable liquids, Category 3                                | H226 |
| Acute toxicity (oral), Category 3                            | H301 |
| Acute toxicity (dermal), Category 3                          | H311 |
| Skin corrosion/irritation, Category 2                        | H315 |
| Skin sensitisation, Category 1                               | H317 |
| Serious eye damage/eye irritation, Category 2                | H319 |
| Specific target organ toxicity – single exposure, Category 1 | H370 |
| Full text of H- and EUH-statements: see section 16           |      |

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

Flammable liquid and vapour. Causes damage to organs. Toxic in contact with skin. Toxic if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.

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### 2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

Contains

Hazard statements (CLP)

Precautionary statements (CLP)

- : Danger
- : maleic acid; methanol
- : H226 - Flammable liquid and vapour.  
H301+H311 - Toxic if swallowed or in contact with skin.  
H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H319 - Causes serious eye irritation.  
H370 - Causes damage to organs.
- : P210 - Keep away from heat, hot surfaces, open flames, sparks. – No smoking.  
P233 - Keep container tightly closed.  
P260 - Do not breathe mist, spray, vapours.  
P264 - Wash hands thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P280 - Wear protective gloves, protective clothing, eye protection, face protection.  
P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.  
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P370+P378 - In case of fire: Use ABC-powder, alcohol resistant foam, BC-powder, carbon dioxide (CO<sub>2</sub>), D-powder for extinction.  
P403+P235 - Store in a well-ventilated place. Keep cool.  
P405 - Store locked up.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards

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

| Component                       |   |
|---------------------------------|---|
| maleic acid (110-16-7)          | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| potassium hydroxide (1310-58-3) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| methanol (67-56-1)              | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, 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 is 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 %

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### 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]  |
|---|---|---------|--|
| methanol<br>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   | 30 – 70 | Flam. Liq. 2, H225<br>Acute Tox. 3 (Oral), H301<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 3 (Inhalation), H331<br>Acute Tox. 3 (Inhalation:vapour), H331<br>STOT SE 1, H370 |
| maleic acid   | CAS-No.: 110-16-7<br>EC-No.: 203-742-5<br>EC Index-No.: 607-095-00-3  | < 5     | Acute Tox. 4 (Oral), H302<br>Skin Corr. 1, H314<br>Skin Sens. 1, H317<br>STOT SE 3, H335   |
| potassium hydroxide   | CAS-No.: 1310-58-3<br>EC-No.: 215-181-3<br>EC Index-No.: 019-002-00-8 | < 1     | Met. Corr. 1, H290<br>Acute Tox. 4 (Oral), H302<br>Skin Corr. 1, H314  |

#### 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   | ( 3 ≤C < 10) STOT SE 2, H371<br>( 10 ≤C < 100) STOT SE 1, H370  |
| maleic acid         | CAS-No.: 110-16-7<br>EC-No.: 203-742-5<br>EC Index-No.: 607-095-00-3  | ( 0.1 ≤C ≤ 100) Skin Sens. 1, H317  |
| potassium hydroxide | CAS-No.: 1310-58-3<br>EC-No.: 215-181-3<br>EC Index-No.: 019-002-00-8 | ( 0.5 ≤C < 2) Skin Irrit. 2, H315<br>( 0.5 ≤C < 2) Eye Irrit. 2, H319<br>( 2 ≤C < 5) Skin Corr. 1B, H314<br>( 5 ≤C < 100) Skin Corr. 1A, H314 |

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

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Call a POISON CENTER/doctor. Specific treatment (see supplemental first aid instruction on this label). Call a physician immediately.

First-aid measures after inhalation

: Remove person to fresh air and keep comfortable for breathing. Remove person to fresh air and keep comfortable for breathing.

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|                                       |  |
|---------------------------------------|--|
| First-aid measures after skin contact | : Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER/doctor. Wash with plenty of water/.... Specific measures (see supplemental first aid instruction on this label). Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label). If skin irritation or rash occurs: If skin irritation or rash occurs: Get medical advice/attention. |
| First-aid measures after eye contact  | : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.  |
| First-aid measures after ingestion    | : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Immediately call a POISON CENTER/doctor. Specific treatment (see supplemental first aid instruction on this label). Call a physician immediately.   |

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

|                                     |  |
|-------------------------------------|--|
| Symptoms/effects after inhalation   | : May cause an allergic skin reaction.   |
| Symptoms/effects after skin contact | : Repeated exposure to this material can result in absorption through skin causing significant health hazard. Causes skin irritation. Irritation. May cause an allergic skin reaction. |
| Symptoms/effects after eye contact  | : Causes serious eye irritation. Eye irritation.   |
| Symptoms/effects after ingestion    | : Swallowing a small quantity of this material will result in serious health hazard.   |

### 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   | : ABC powder. Alcohol-resistant foam. BC-powder. 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                                      | : Flammable liquid and vapour.                     |
| Explosion hazard                                 | : May form flammable/explosive vapour-air mixture. |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released.                     |

### 5.3. Advice for firefighters

|                                |  |
|--------------------------------|--|
| Firefighting instructions      | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.  |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. 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 | : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. |
|------------------|---|

#### 6.1.1. For non-emergency personnel

|                      |  |
|----------------------|--|
| Emergency procedures | : Ventilate spillage area. Evacuate unnecessary personnel. No open flames, no sparks, and no smoking. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin, eyes and clothing. |
|----------------------|--|

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### 6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapours/spray. For further information refer to section 8: "Exposure controls/personal protection".
- Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

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

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

- Methods for cleaning up : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. 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

See Section 8. Exposure controls and personal protection. For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.
- Precautions for safe handling : Ensure good ventilation of the work station. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Do not breathe dust/fume/gas/mist/vapours/spray. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing.
- Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. 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 : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment.
- Storage conditions : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from sunlight. Store in a well-ventilated place. Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.
- Incompatible products : Strong bases. Strong acids.
- Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

### 7.3. Specific end use(s)

No additional information available

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 National occupational exposure and biological limit values

| potassium hydroxide (1310-58-3)                           |  |
|---|--|
| <b>Belgium - Occupational Exposure Limits</b>             |  |
| OEL STEL  | 2 mg/m <sup>3</sup> (The word "M" indicates that when exposure exceeds the limit value, irritations appear or a danger of acute intoxication exists. The work process must be designed in such a way that exposure never exceeds the limit value. When making measurements, the sampling period should be as short as possible in order to make reliable measurements. The measurement result is calculated based on the sampling period.) |
| <b>France - Occupational Exposure Limits</b>              |  |
| VLE (OEL C/STEL)  | 2 mg/m <sup>3</sup>  |
| <b>United Kingdom - Occupational Exposure Limits</b>      |  |
| WEL STEL (OEL STEL)                                       | 2 mg/m <sup>3</sup>  |
| <b>USA - ACGIH - Occupational Exposure Limits</b>         |  |
| Local name  | Potassium hydroxide  |
| ACGIH OEL C   | 2 mg/m <sup>3</sup>  |
| Remark (ACGIH)  | URT, eye, & skin irr   |
| Regulatory reference                                      | ACGIH 2022   |
| methanol (67-56-1)  |  |
| <b>EU - Indicative Occupational Exposure Limit (IOEL)</b> |  |
| IOEL TWA  | 260 mg/m <sup>3</sup>  |
| IOEL TWA [ppm]  | 200 ppm  |
| <b>Belgium - Occupational Exposure Limits</b>             |  |
| OEL TWA   | 266 mg/m <sup>3</sup>  |
| OEL TWA [ppm]   | 200 ppm  |
| OEL STEL  | 333 mg/m <sup>3</sup>  |
| OEL STEL [ppm]  | 250 ppm  |
| <b>France - Occupational Exposure Limits</b>              |  |
| VME (OEL TWA)   | 260 mg/m <sup>3</sup>  |
| VME (OEL TWA) [ppm]                                       | 200 ppm  |
| VLE (OEL C/STEL)  | 1300 mg/m <sup>3</sup>   |
| VLE (OEL C/STEL) [ppm]                                    | 1000 ppm   |
| <b>Netherlands - Occupational Exposure Limits</b>         |  |
| TGG-8u (OEL TWA)  | 133 mg/m <sup>3</sup>  |
| TGG-8u (OEL TWA) [ppm]                                    | 100 ppm  |

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| methanol (67-56-1)                                   |  |
|--|--|
| <b>United Kingdom - Occupational Exposure Limits</b> |  |
| WEL TWA (OEL TWA) [1]                                | 266 mg/m <sup>3</sup>  |
| WEL TWA (OEL TWA) [2]                                | 200 ppm  |
| WEL STEL (OEL STEL)                                  | 333 mg/m <sup>3</sup>  |
| WEL STEL (OEL STEL) [ppm]                            | 250 ppm  |
| <b>USA - ACGIH - Occupational Exposure Limits</b>    |  |
| Local name   | Methanol   |
| ACGIH OEL TWA [ppm]                                  | 200 ppm  |
| ACGIH OEL STEL [ppm]                                 | 250 ppm  |
| Remark (ACGIH)                                       | Headache; eye dam; dizziness; nausea   |
| Regulatory reference                                 | ACGIH 2022   |
| <b>USA - ACGIH - Biological Exposure Indices</b>     |  |
| Local name   | METHANOL   |
| BEI  | 15 mg/l Parameter: Methanol - Medium: urine - Sampling time: End of shift - Notations: B, Ns |
| Regulatory reference                                 | ACGIH 2022   |

### 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:

Ensure good ventilation of the work station.

### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Safety glasses. Gloves. Avoid all unnecessary exposure.

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



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Chemical goggles or safety glasses. Safety glasses

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### 8.2.2.2. Skin protection

#### Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

Wear protective gloves. Suitable gloves should be tested to EN 374. The glove material has to be impermeable and resistant to the product/the substance/the preparation. As the product is a preparation of several substances, the resistance and penetration time/breakthrough time of the glove material cannot be calculated/observed in advance and, therefore, has to be checked prior to the application. The following are recommended: materials - natural latex or nitrile; thickness - 4 to 6 mils (0.1 mm - 0.15 mm); minimum breakthrough time - 60 minutes.

### 8.2.2.3. Respiratory protection

#### Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

#### Other information:

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

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

|   |  |
|---|--|
| Physical state                                  | : Liquid                                     |
| Colour  | : Red  |
| Odour   | : Alcohol odour                              |
| Odour threshold                                 | : Not available                              |
| Melting point                                   | : Not applicable                             |
| Freezing point                                  | : Not available                              |
| Boiling point                                   | : Not available                              |
| Flammability                                    | : Flammable liquid and vapour.               |
| Explosive limits                                | : Not available                              |
| Lower explosion limit                           | : Not available                              |
| Upper explosion limit                           | : Not available                              |
| Flash point                                     | : ≈ 28.6 (25 – 32.2) °C                      |
| Auto-ignition temperature                       | : Not available                              |
| Decomposition temperature                       | : Not available                              |
| pH  | : 6.8 (6.7 – 6.9)                            |
| 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   | : 0.8885 (0.8835 – 0.8935) 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

#### 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

Flammable liquid and vapour.

### 10.2. Chemical stability

Flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks. Avoid contact with hot surfaces. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

## SECTION 11: Toxicological information

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

Acute toxicity (oral) : Toxic if swallowed.  
Acute toxicity (dermal) : Toxic in contact with skin.  
Acute toxicity (inhalation) : Not classified

| <b>maleic acid (110-16-7)</b>          |  |
|--|--|
| LD50 oral rat                          | 2870 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 2470 - 3250        |
| LD50 oral                              | 708 mg/kg bodyweight (Annex VI, Oral)  |
| LD50 dermal rabbit                     | 2620 mg/kg bodyweight Animal: rabbit, Animal sex: female, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)    |
| <b>potassium hydroxide (1310-58-3)</b> |  |
| LD50 oral rat                          | 333 – 388 mg/kg bodyweight (Equivalent or similar to OECD 425, Rat, Male, Experimental value, Oral, 14 day(s))     |
| <b>methanol (67-56-1)</b>              |  |
| LD50 oral rat                          | 1187 – 2769 mg/kg bodyweight (BASF test, Rat, Male / female, Experimental value, Aqueous solution, Oral, 7 day(s)) |
| LD50 oral                              | 101.01 mg/kg (Acute toxicity, Oral, Estimate)  |
| LC50 Inhalation - Rat                  | 3.03 mg/l air (BASF test, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours))                       |

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Skin corrosion/irritation : Causes skin irritation.  
pH: 6.8 (6.7 – 6.9)

### maleic acid (110-16-7)

pH 1.5 (1.2 %)

### potassium hydroxide (1310-58-3)

pH 13.5 (0.56 %, 25 °C)

### methanol (67-56-1)

pH No data available in the literature

Serious eye damage/irritation : Causes serious eye irritation.  
pH: 6.8 (6.7 – 6.9)

### maleic acid (110-16-7)

pH 1.5 (1.2 %)

### potassium hydroxide (1310-58-3)

pH 13.5 (0.56 %, 25 °C)

### methanol (67-56-1)

pH No data available in the literature

Respiratory or skin sensitisation : May cause an allergic skin reaction.  
Germ cell mutagenicity : Not classified  
Additional information : Based on available data, the classification criteria are not met  
Carcinogenicity : Not classified  
Additional information : Based on available data, the classification criteria are not met  
Reproductive toxicity : Not classified  
Additional information : Based on available data, the classification criteria are not met

### methanol (67-56-1)

NOAEL (animal/male, F0/P) < 1000 mg/kg bodyweight Animal: mouse, Animal sex: male

STOT-single exposure : Causes damage to organs.

### maleic acid (110-16-7)

STOT-single exposure May cause respiratory irritation.

### methanol (67-56-1)

STOT-single exposure Causes damage to organs.

STOT-repeated exposure : Not classified  
Additional information : Based on available data, the classification criteria are not met  
Aspiration hazard : Not classified  
Additional information : Based on available data, the classification criteria are not met

### maleic acid (110-16-7)

Viscosity, kinematic Not applicable (solid)

### potassium hydroxide (1310-58-3)

Viscosity, kinematic Not applicable (solid)

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### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

No additional information available

#### 11.2.2. Other information

Potential adverse human health effects and symptoms : Toxic if swallowed, Toxic in contact with skin.

## 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) : Not classified

#### maleic acid (110-16-7)

|                      |   |
|----------------------|---|
| EC50 - Crustacea [1] | 42.81 mg/l Test organisms (species): Daphnia magna  |
| EC50 - Crustacea [2] | ≈ 93.8 mg/l Test organisms (species): Daphnia magna   |
| EC50 72h - Algae [1] | 74.35 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)              |
| EC50 72h - Algae [2] | 17.17 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)              |
| ErC50 algae          | 74.35 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth rate) |
| NOEC (chronic)       | 10 mg/l Test organisms (species): Daphnia magna Duration: '21 d'  |

#### potassium hydroxide (1310-58-3)

|                 |                                  |
|-----------------|----------------------------------|
| LC50 - Fish [1] | 80 mg/l (96 h; Gambusia affinis) |
|-----------------|----------------------------------|

#### methanol (67-56-1)

|                      |  |
|----------------------|--|
| LC50 - Fish [1]      | 15400 mg/l (EPA 660/3 - 75/009, 96 h, Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, Lethal)                                 |
| EC50 - Crustacea [1] | 18260 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 96 h, Daphnia magna, Semi-static system, Fresh water, Experimental value, Locomotor effect) |
| EC50 96h - Algae [1] | 22000 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth rate)        |
| NOEC (chronic)       | 208 mg/l Test organisms (species): Daphnia magna Duration: '21 d'  |

### 12.2. Persistence and degradability

#### Aerospray® Hematology Pro Reagent C, Eosin Stain

Persistence and degradability : Not established.

#### maleic acid (110-16-7)

Persistence and degradability : Readily biodegradable in water.

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| maleic acid (110-16-7)          |  |
|---------------------------------|--|
| Biochemical oxygen demand (BOD) | 0.38 g O <sub>2</sub> /g substance                                 |
| Chemical oxygen demand (COD)    | 0.83 g O <sub>2</sub> /g substance                                 |
| ThOD                            | 0.83 g O <sub>2</sub> /g substance                                 |
| potassium hydroxide (1310-58-3) |  |
| Persistence and degradability   | Biodegradability: not applicable.                                  |
| Chemical oxygen demand (COD)    | Not applicable (inorganic)   |
| ThOD                            | Not applicable (inorganic)   |
| methanol (67-56-1)              |  |
| Persistence and degradability   | Readily biodegradable in the soil. Readily biodegradable in water. |
| Biochemical oxygen demand (BOD) | 0.6 – 1.12 g O <sub>2</sub> /g substance                           |
| Chemical oxygen demand (COD)    | 1.42 g O <sub>2</sub> /g substance                                 |
| ThOD                            | 1.5 g O <sub>2</sub> /g substance                                  |

### 12.3. Bioaccumulative potential

| Aerospray® Hematology Pro Reagent C, Eosin Stain |   |
|--|---|
| Bioaccumulative potential                        | Not established.  |
| maleic acid (110-16-7)                           |   |
| Partition coefficient n-octanol/water (Log Pow)  | -1.3 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C) |
| Bioaccumulative potential                        | Not bioaccumulative.  |
| potassium hydroxide (1310-58-3)                  |   |
| Bioaccumulative potential                        | Not bioaccumulative.  |
| methanol (67-56-1)                               |   |
| BCF - Fish [1]                                   | 1 – 4.5 (72 h, Cyprinus carpio, Static system, Fresh water, Experimental value)                         |
| Partition coefficient n-octanol/water (Log Pow)  | -0.77 (Experimental value)  |
| Bioaccumulative potential                        | Low potential for bioaccumulation (BCF < 500).  |

### 12.4. Mobility in soil

| maleic acid (110-16-7)                                     |                                       |
|--|---------------------------------------|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 1.63 (log Koc, Calculated value)      |
| Ecology - soil   | Highly mobile in soil.                |
| potassium hydroxide (1310-58-3)                            |                                       |
| Surface tension  | No data available in the literature   |
| Ecology - soil   | Low potential for adsorption in soil. |

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| methanol (67-56-1)   |   |
|--|---|
| Surface tension  | No data available in the literature       |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | -0.89 – -0.21 (log Koc, Calculated value) |
| Ecology - soil   | Highly mobile in soil.                    |

### 12.5. Results of PBT and vPvB assessment

| Component                       |   |
|---------------------------------|---|
| maleic acid (110-16-7)          | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| potassium hydroxide (1310-58-3) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| methanol (67-56-1)              | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

Additional 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.  
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.  
Additional information : Handle empty containers with care because residual vapours are flammable. Flammable vapours may accumulate in the container.  
Ecology - waste materials : Avoid release to the environment. Hazardous waste due to toxicity.

## SECTION 14: Transport information

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

### 14.1. UN number or ID number

UN-No. (ADR) : UN 1992  
UN-No. (IMDG) : UN 1992  
UN-No. (IATA) : UN 1992  
UN-No. (ADN) : UN 1992  
UN-No. (RID) : UN 1992

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : FLAMMABLE LIQUID, TOXIC, N.O.S. (Methanol)  
Proper Shipping Name (IMDG) : FLAMMABLE LIQUID, TOXIC, N.O.S. (Methanol)  
Proper Shipping Name (IATA) : Flammable liquid, toxic, n.o.s. (Methanol)  
Proper Shipping Name (ADN) : FLAMMABLE LIQUID, TOXIC, N.O.S. (Methanol)

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|                                       |   |
|---------------------------------------|---|
| Proper Shipping Name (RID)            | : FLAMMABLE LIQUID, TOXIC, N.O.S. (Methanol)                              |
| Transport document description (ADR)  | : UN 1992 FLAMMABLE LIQUID, TOXIC, N.O.S. (Methanol), 3 (6.1), III, (D/E) |
| Transport document description (IMDG) | : UN 1992 FLAMMABLE LIQUID, TOXIC, N.O.S. (Methanol), 3 (6.1), III        |
| Transport document description (IATA) | : UN 1992 Flammable liquid, toxic, n.o.s. (Methanol), 3 (6.1), III        |
| Transport document description (ADN)  | : UN 1992 FLAMMABLE LIQUID, TOXIC, N.O.S. (Methanol), 3 (6.1), III        |
| Transport document description (RID)  | : UN 1992 FLAMMABLE LIQUID, TOXIC, N.O.S. (Methanol), 3 (6.1), III        |

### 14.3. Transport hazard class(es)

#### ADR

|                                  |           |
|----------------------------------|-----------|
| Transport hazard class(es) (ADR) | : 3 (6.1) |
| Danger labels (ADR)              | : 3, 6.1  |



#### IMDG

|                                   |           |
|-----------------------------------|-----------|
| Transport hazard class(es) (IMDG) | : 3 (6.1) |
| Danger labels (IMDG)              | : 3, 6.1  |



#### IATA

|                                   |           |
|-----------------------------------|-----------|
| Transport hazard class(es) (IATA) | : 3 (6.1) |
| Danger labels (IATA)              | : 3, 6.1  |



#### ADN

|                                  |           |
|----------------------------------|-----------|
| Transport hazard class(es) (ADN) | : 3 (6.1) |
| Danger labels (ADN)              | : 3, 6.1  |



#### RID

|                                  |           |
|----------------------------------|-----------|
| Transport hazard class(es) (RID) | : 3 (6.1) |
| Danger labels (RID)              | : 3, 6.1  |



### 14.4. Packing group

|                      |       |
|----------------------|-------|
| Packing group (ADR)  | : III |
| Packing group (IMDG) | : III |
| Packing group (IATA) | : III |

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Packing group (ADN) : III  
Packing group (RID) : III

### 14.5. Environmental hazards

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

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR) : FT1  
Special provisions (ADR) : 274  
Limited quantities (ADR) : 5I  
Excepted quantities (ADR) : E1  
Packing instructions (ADR) : P001, IBC03, R001  
Mixed packing provisions (ADR) : MP19  
Portable tank and bulk container instructions (ADR) : T7  
Portable tank and bulk container special provisions (ADR) : TP1, TP28  
Tank code (ADR) : L4BH  
Tank special provisions (ADR) : TU15  
Vehicle for tank carriage : FL  
Transport category (ADR) : 3  
Special provisions for carriage - Packages (ADR) : V12  
Special provisions for carriage - Loading, unloading and handling (ADR) : CV13, CV28  
Special provisions for carriage - Operation (ADR) : S2  
Hazard identification number (Kemler No.) : 36  
Orange plates :   
Tunnel restriction code (ADR) : D/E  
EAC code : •3WE  
APP code : A(fl)

#### Transport by sea

Special provisions (IMDG) : 223, 274  
Packing instructions (IMDG) : P001  
IBC packing instructions (IMDG) : IBC03  
Tank instructions (IMDG) : T7  
Tank special provisions (IMDG) : TP1, TP28  
EmS-No. (Fire) : F-E  
EmS-No. (Spillage) : S-D  
Stowage category (IMDG) : A  
Properties and observations (IMDG) : Flammable toxic liquid which is not specified by name in this class or, on account of its characteristics, in some other class. Toxic if swallowed, by skin contact or by inhalation.

#### Air transport

PCA Excepted quantities (IATA) : E1  
PCA Limited quantities (IATA) : Y343  
PCA limited quantity max net quantity (IATA) : 2L  
PCA packing instructions (IATA) : 355  
PCA max net quantity (IATA) : 60L  
CAO packing instructions (IATA) : 366  
CAO max net quantity (IATA) : 220L

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

### Inland waterway transport

Classification code (ADN) : FT1  
Special provisions (ADN) : 274, 802  
Limited quantities (ADN) : 5 L  
Excepted quantities (ADN) : E1  
Equipment required (ADN) : PP, EP, EX, TOX, A  
Ventilation (ADN) : VE01, VE02  
Number of blue cones/lights (ADN) : 0

### Rail transport

Classification code (RID) : FT1  
Special provisions (RID) : 274  
Limited quantities (RID) : 5L  
Excepted quantities (RID) : E1  
Packing instructions (RID) : P001, IBC03, R001  
Mixed packing provisions (RID) : MP19  
Portable tank and bulk container instructions (RID) : T7  
Portable tank and bulk container special provisions (RID) : TP1, TP28  
Tank codes for RID tanks (RID) : L4BH  
Special provisions for RID tanks (RID) : TU15  
Transport category (RID) : 3  
Special provisions for carriage – Packages (RID) : W12  
Special provisions for carriage - Loading, unloading and handling (RID) : CW13, CW28  
Colis express (express parcels) (RID) : CE4  
Hazard identification number (RID) : 36

### 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

##### 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 (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)



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### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### Drug Precursors Regulation (273/2004)

Contains no 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)

### 15.1.2. National regulations

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

#### France

| Occupational diseases |   |
|-----------------------|---|
| Code                  | Description   |
| RG 84                 | Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfoxide and dimethylsulfoxide |

#### Germany

- Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG).  
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).
- Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).
- Chemicals Prohibition Ordinance (ChemVerbotsV) : This product is subject to ChemVerbotsV Annex 2 Entry 1. The following requirements must be observed: authorization requirement (according to § 6 paragraph 1 sentence 1), basic requirements for carrying out the delivery (according to § 8 paragraph 1, 3 and 4), identification and documentation (according to § 9 paragraph 1 to 3) and exclusion of the shipping route (according to § 10).
- Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

#### Netherlands

- SZW list of carcinogenic substances : None of the components are listed
- SZW list of mutagens : None of the components are listed
- SZW list of reprotoxic substances – Breastfeeding : None of the components are listed
- SZW list of reprotoxic substances – Fertility : None of the components are listed
- SZW list of reprotoxic substances – Development : None of the components are listed

#### Denmark

- Classification remarks : 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

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

| 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   |

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| Abbreviations and acronyms: |  |
|-----------------------------|--|
| 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   |
| 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 disrupting properties  |

Data sources : 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.

Other information : None.

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| 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 (Inhalation:vapour)    | Acute toxicity (inhalation:vapour) Category 3  |
| Acute Tox. 3 (Oral)                 | Acute toxicity (oral), Category 3  |
| Acute Tox. 4 (Oral)                 | Acute toxicity (oral), Category 4  |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2  |
| Flam. Liq. 2                        | Flammable liquids, Category 2  |
| H225                                | Highly flammable liquid and vapour.  |
| H226                                | Flammable liquid and vapour.   |
| H290                                | May be corrosive to metals.  |
| H301                                | Toxic if swallowed.  |
| H302                                | Harmful if swallowed.  |
| H311                                | Toxic in contact with skin.  |
| H314                                | Causes severe skin burns and eye damage.   |
| H315                                | Causes skin irritation.  |
| H317                                | May cause an allergic skin reaction.   |
| H319                                | Causes serious eye irritation.   |
| H331                                | Toxic if inhaled.  |
| H335                                | May cause respiratory irritation.  |
| H370                                | Causes damage to organs.   |
| H371                                | May cause damage to organs.  |
| Met. Corr. 1                        | Corrosive to metals, Category 1  |
| Skin Corr. 1                        | Skin corrosion/irritation, Category 1  |
| Skin Corr. 1A                       | Skin corrosion/irritation, Category 1, Sub-Category 1A                                     |
| Skin Corr. 1B                       | Skin corrosion/irritation, Category 1, Sub-Category 1B                                     |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2  |
| Skin Sens. 1                        | Skin sensitisation, Category 1   |
| 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, Respiratory tract irritation |

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.

Reason for change: correcting h-codes and updating to latest format.