

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form : Mixture  
Name : 20 ml total hardness 1 (liquid)  
Trade name : 20 ml total hardness 1 (liquid)  
Product code : POLR-HL1\_A

**1.2. Relevant identified uses of the substance or mixture and uses advised against****1.2.1. Relevant identified uses**

Main use category : Reagent for water analysis

**1.2.2. Uses advised against**

No additional information available

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

labbox labware s.l.  
Migjorn, 1  
P.O. Box Barcelona (SPAIN)  
08338 Premia de Dalt – SPAIN  
ES  
T +34 937 07 79 70 - F +34 937 909 532  
[info@labbox.com](mailto:info@labbox.com) - [www.labbox.com](http://www.labbox.com)

**1.4. Emergency telephone number**

Emergency number : +34 937 077 970 (For technical information\_Office Hours) In case of medical emergency phone 112 or to your local emergency number.

| Country        | Organisation/Company  | Address                    | Emergency number | Comment |
|----------------|---|----------------------------|------------------|---------|
| United Kingdom | National Poisons Information Service<br>(Belfast Centre)<br>Royal Victoria Hospital | Grosvenor Road<br>BT12 6BA | 0344 892 0111    |         |

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Acute toxicity (oral), Category 4 H302  
Skin corrosion/irritation, Category 2 H315  
Serious eye damage/eye irritation, Category 2 H319  
Specific target organ toxicity — Repeated exposure, Category H373  
2

Full text of H and EUH statements: see section 16

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

No additional information available

**2.2. Label elements****Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP) :



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|                                |  |       |
|--------------------------------|--|-------|
|                                | GHS07  | GHS08 |
| Signal word (CLP)              | : Warning  |       |
| Hazard statements (CLP)        | : H302 - Harmful if swallowed.<br>H315 - Causes skin irritation.<br>H319 - Causes serious eye irritation.<br>H373 - May cause damage to organs through prolonged or repeated exposure.   |       |
| Precautionary statements (CLP) | : P260 - Do not breathe dust/fume/gas/mist/vapours/spray.<br>P264 - Wash hands, forearms and face thoroughly after handling.<br>P270 - Do not eat, drink or smoke when using this product.<br>P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.<br>P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.<br>P302+P352 - IF ON SKIN: Wash with plenty of water. |       |

### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII  
Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

| Component                  |  |
|----------------------------|--|
| Ethylene glycol (107-21-1) | PBT: not relevant – no registration required |

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

| Component  |  |
|--|--|
| Ethylene glycol(107-21-1)  |  |
| Ammonium indicator strips 0-400 mg/l (ppm), 100 strips/pack(1310-73-2) | 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 |

## 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] |
|---|--|---------|---|
| Ethylene glycol substance with a Community workplace exposure limit | CAS-No.: 107-21-1<br>EC-No.: 203-473-3<br>EC Index-No.: 603-027-00-1<br>REACH-no: 01-2119456816-28 | 30 – 50 | Acute Tox. 4 (Oral), H302<br>STOT RE 2, H373                    |
| Ammonium indicator strips 0-400 mg/l (ppm), 100 strips/pack         | CAS-No.: 1310-73-2<br>EC-No.: 215-185-5<br>EC Index-No.: 011-002-00-6                              | < 1,5   | Met. Corr. 1, H290<br>Skin Corr. 1A, H314<br>Eye Dam. 1, H318   |

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| Specific concentration limits:                              |   |   |
|---|---|---|
| Name  | Product identifier  | Specific concentration limits (%)   |
| Ammonium indicator strips 0-400 mg/l (ppm), 100 strips/pack | CAS-No.: 1310-73-2<br>EC-No.: 215-185-5<br>EC Index-No.: 011-002-00-6 | (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            | : If you feel unwell, seek medical advice (show the label where possible).   |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. Call a physician immediately.   |
| First-aid measures after skin contact | : Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.  |
| First-aid measures after eye contact  | : Immediately rinse with water for a prolonged period while holding the eyelids wide open. 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    | : Rinse mouth out with water. Do not induce vomiting. Get medical advice/attention.  |

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

|                                    |                            |
|------------------------------------|----------------------------|
| Symptoms/effects after inhalation  | : Burning sensation.       |
| Symptoms/effects after eye contact | : redness, itching, tears. |

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

Never give anything by mouth to an unconscious person.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                |   |
|--------------------------------|---|
| Suitable extinguishing media   | : Making extinguishing agents environment-friendly. |
| Unsuitable extinguishing media | : Strong water jet.                                 |

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

No additional information available

### 5.3. Advice for firefighters

|                                |   |
|--------------------------------|---|
| Firefighting instructions      | : Exercise caution when fighting any chemical fire.   |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. |

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

|                      |  |
|----------------------|--|
| Emergency procedures | : Do not get in eyes, on skin, or on clothing. Only qualified personnel equipped with suitable protective equipment may intervene. |
|----------------------|--|

#### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

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

- Methods for cleaning up : Absorb spilled material with sand or earth.  
Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

See Heading 8. For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Additional hazards when processed : Avoid any direct contact with the product.  
Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

- Storage conditions : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store in a well-ventilated place. Keep container tightly closed.  
Packaging materials : Keep only in the original container in a cool, well-ventilated place away from combustible materials.

### 7.3. Specific end use(s)

Laboratory chemicals. Reagent for water analysis.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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

| 20 ml total hardness 1 (liquid)                           |                       |
|---|-----------------------|
| <b>EU - Indicative Occupational Exposure Limit (IOEL)</b> |                       |
| IOEL TWA  | 52 mg/m <sup>3</sup>  |
| IOEL TWA [ppm]  | 20 ppm                |
| IOEL STEL   | 104 mg/m <sup>3</sup> |
| IOEL STEL [ppm]   | 40 ppm                |
| <b>Austria - Occupational Exposure Limits</b>             |                       |
| MAK (OEL TWA)   | 26 mg/m <sup>3</sup>  |
| MAK (OEL TWA) [ppm]                                       | 10 ppm                |
| MAK (OEL STEL)  | 52 mg/m <sup>3</sup>  |
| MAK (OEL STEL) [ppm]                                      | 20 ppm                |
| <b>Bulgaria - Occupational Exposure Limits</b>            |                       |
| OEL TWA   | 52 mg/m <sup>3</sup>  |
| OEL TWA [ppm]   | 20 ppm                |
| OEL STEL  | 104 mg/m <sup>3</sup> |
| OEL STEL [ppm]  | 20 ppm                |
| <b>Croatia - Occupational Exposure Limits</b>             |                       |
| GVI (OEL TWA) [1]   | 52 mg/m <sup>3</sup>  |
| GVI (OEL TWA) [2]   | 20 ppm                |

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|--|-----------------------|
| KGVI (OEL STEL)  | 104 mg/m <sup>3</sup> |
| KGVI (OEL STEL) [ppm]                                    | 40 ppm                |
| <b>Cyprus - Occupational Exposure Limits</b>             |                       |
| OEL TWA  | 52 mg/m <sup>3</sup>  |
| OEL TWA [ppm]  | 20 ppm                |
| OEL STEL   | 104 mg/m <sup>3</sup> |
| OEL STEL [ppm]   | 40 ppm                |
| <b>Czech Republic - Occupational Exposure Limits</b>     |                       |
| PEL (OEL TWA)  | 50 mg/m <sup>3</sup>  |
| NPK-P (OEL Ceiling)                                      | 100 mg/m <sup>3</sup> |
| <b>Denmark - Occupational Exposure Limits</b>            |                       |
| OEL TWA [1]  | 26 mg/m <sup>3</sup>  |
| OEL TWA [2]  | 10 ppm                |
| OEL STEL   | 10 mg/m <sup>3</sup>  |
| <b>Estonia - Occupational Exposure Limits</b>            |                       |
| OEL TWA  | 52 mg/m <sup>3</sup>  |
| OEL TWA [ppm]  | 20 ppm                |
| OEL STEL   | 104 mg/m <sup>3</sup> |
| OEL STEL [ppm]   | 40 ppm                |
| <b>Finland - Occupational Exposure Limits</b>            |                       |
| HTP (OEL TWA) [1]  | 50 mg/m <sup>3</sup>  |
| HTP (OEL TWA) [2]  | 20 ppm                |
| HTP (OEL STEL)   | 100 mg/m <sup>3</sup> |
| HTP (OEL STEL) [ppm]                                     | 40 ppm                |
| <b>France - Occupational Exposure Limits</b>             |                       |
| VME (OEL TWA)  | 52 mg/m <sup>3</sup>  |
| VME (OEL TWA) [ppm]                                      | 20 ppm                |
| VLE (OEL Ceiling/STEL)                                   | 104 mg/m <sup>3</sup> |
| VLE (OEL Ceiling/STEL) [ppm]                             | 40 ppm                |
| <b>Germany - Occupational Exposure Limits (TRGS 900)</b> |                       |
| AGW (OEL TWA) [1]  | 26 mg/m <sup>3</sup>  |
| AGW (OEL TWA) [2]  | 10 ppm                |
| <b>Greece - Occupational Exposure Limits</b>             |                       |
| OEL TWA  | 125 mg/m <sup>3</sup> |
| OEL TWA [ppm]  | 50 ppm                |
| OEL STEL   | 125 mg/m <sup>3</sup> |
| OEL STEL [ppm]   | 50 ppm                |
| <b>Hungary - Occupational Exposure Limits</b>            |                       |
| AK (OEL TWA)   | 52 mg/m <sup>3</sup>  |

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|---|-----------------------|
| CK (OEL STEL)                                     | 104 mg/m <sup>3</sup> |
| <b>Ireland - Occupational Exposure Limits</b>     |                       |
| OEL TWA [1]                                       | 10 mg/m <sup>3</sup>  |
| OEL TWA [2]                                       | 20 ppm                |
| OEL STEL  | 52 mg/m <sup>3</sup>  |
| OEL STEL [ppm]                                    | 40 ppm                |
| <b>Italy - Occupational Exposure Limits</b>       |                       |
| OEL TWA   | 52 mg/m <sup>3</sup>  |
| OEL TWA [ppm]                                     | 20 ppm                |
| OEL STEL  | 104 mg/m <sup>3</sup> |
| OEL STEL [ppm]                                    | 40 ppm                |
| <b>Latvia - Occupational Exposure Limits</b>      |                       |
| OEL TWA   | 52 mg/m <sup>3</sup>  |
| OEL TWA [ppm]                                     | 20 ppm                |
| OEL STEL  | 104 mg/m <sup>3</sup> |
| OEL STEL [ppm]                                    | 40 ppm                |
| <b>Lithuania - Occupational Exposure Limits</b>   |                       |
| IPRV (OEL TWA)                                    | 25 mg/m <sup>3</sup>  |
| IPRV (OEL TWA) [ppm]                              | 10 ppm                |
| TPRV (OEL STEL)                                   | 50 mg/m <sup>3</sup>  |
| TPRV (OEL STEL) [ppm]                             | 20 ppm                |
| <b>Luxembourg - Occupational Exposure Limits</b>  |                       |
| OEL TWA   | 52 mg/m <sup>3</sup>  |
| OEL TWA [ppm]                                     | 20 ppm                |
| OEL STEL  | 104 mg/m <sup>3</sup> |
| OEL STEL [ppm]                                    | 40 ppm                |
| <b>Malta - Occupational Exposure Limits</b>       |                       |
| OEL TWA   | 52 mg/m <sup>3</sup>  |
| OEL TWA [ppm]                                     | 20 ppm                |
| OEL STEL  | 104 mg/m <sup>3</sup> |
| OEL STEL [ppm]                                    | 40 ppm                |
| <b>Netherlands - Occupational Exposure Limits</b> |                       |
| MAC-TGG (OEL TWA)                                 | 52 mg/m <sup>3</sup>  |
| MAC-TGG (OEL TWA) [ppm]                           | 10 ppm                |
| MAC-15 (OEL STEL)                                 | 104 mg/m <sup>3</sup> |
| <b>Poland - Occupational Exposure Limits</b>      |                       |
| NDS (OEL TWA)                                     | 15 mg/m <sup>3</sup>  |
| NDSP (OEL Ceiling)                                | 50 mg/m <sup>3</sup>  |

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| 20 ml total hardness 1 (liquid)                      |                       |
|--|-----------------------|
| <b>Portugal - Occupational Exposure Limits</b>       |                       |
| OEL TWA  | 52 mg/m <sup>3</sup>  |
| OEL TWA [ppm]  | 20 ppm                |
| OEL STEL   | 104 mg/m <sup>3</sup> |
| OEL STEL [ppm]                                       | 40 ppm                |
| <b>Romania - Occupational Exposure Limits</b>        |                       |
| OEL TWA  | 52 mg/m <sup>3</sup>  |
| OEL TWA [ppm]  | 20 ppm                |
| OEL STEL   | 104 mg/m <sup>3</sup> |
| OEL STEL [ppm]                                       | 40 ppm                |
| <b>Slovakia - Occupational Exposure Limits</b>       |                       |
| NPHV (OEL TWA) [1]                                   | 52 mg/m <sup>3</sup>  |
| NPHV (OEL TWA) [2]                                   | 20 ppm                |
| NPHV (OEL STEL)                                      | 104 mg/m <sup>3</sup> |
| <b>Slovenia - Occupational Exposure Limits</b>       |                       |
| OEL TWA  | 52 mg/m <sup>3</sup>  |
| OEL TWA [ppm]  | 20 ppm                |
| <b>Spain - Occupational Exposure Limits</b>          |                       |
| VLA-ED (OEL TWA) [1]                                 | 52 mg/m <sup>3</sup>  |
| VLA-ED (OEL TWA) [2]                                 | 20 ppm                |
| VLA-EC (OEL STEL)                                    | 104 mg/m <sup>3</sup> |
| VLA-EC (OEL STEL) [ppm]                              | 40 ppm                |
| <b>Sweden - Occupational Exposure Limits</b>         |                       |
| NGV (OEL TWA)  | 25 mg/m <sup>3</sup>  |
| NGV (OEL TWA) [ppm]                                  | 10 ppm                |
| KTV (OEL STEL)                                       | 104 mg/m <sup>3</sup> |
| KTV (OEL STEL) [ppm]                                 | 40 ppm                |
| <b>United Kingdom - Occupational Exposure Limits</b> |                       |
| WEL TWA [1]  | 10 mg/m <sup>3</sup>  |
| WEL TWA [2]  | 20 ppm                |
| WEL STEL   | 104 mg/m <sup>3</sup> |
| WEL STEL (ppm)                                       | 40 ppm                |
| <b>Norway - Occupational Exposure Limits</b>         |                       |
| Grenseverdi (OEL TWA) [1]                            | 52 mg/m <sup>3</sup>  |
| Grenseverdi (OEL TWA) [2]                            | 20 ppm                |
| Korttidsverdi (OEL STEL)                             | 104 mg/m <sup>3</sup> |
| Korttidsverdi (OEL STEL) [ppm]                       | 40 ppm                |
| <b>Switzerland - Occupational Exposure Limits</b>    |                       |
| MAK (OEL TWA) [1]                                    | 26 mg/m <sup>3</sup>  |

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|--|--|
| MAK (OEL TWA) [2]                                  | 10 ppm   |
| KZGW (OEL STEL)                                    | 52 mg/m <sup>3</sup>   |
| KZGW (OEL STEL) [ppm]                              | 20 ppm   |
| Ethylene glycol (107-21-1)                         |  |
| EU - Indicative Occupational Exposure Limit (IOEL) |  |
| Local name   | Ethylene glycol  |
| IOEL TWA   | 52 mg/m <sup>3</sup>   |
| IOEL TWA [ppm]                                     | 20 ppm   |
| IOEL STEL  | 104 mg/m <sup>3</sup>  |
| IOEL STEL [ppm]                                    | 40 ppm   |
| Remark   | Skin   |
| Regulatory reference                               | COMMISSION DIRECTIVE 2000/39/EC                                      |
| France - Occupational Exposure Limits              |  |
| Local name   | Ethylèneglycol   |
| VME (OEL TWA)                                      | 52 mg/m <sup>3</sup> (vapeur)  |
| VME (OEL TWA) [ppm]                                | 20 ppm (vapeur)  |
| VLE (OEL Ceiling/STEL)                             | 104 mg/m <sup>3</sup> (vapeur)                                       |
| VLE (OEL Ceiling/STEL) [ppm]                       | 40 ppm (vapeur)  |
| Remark   | Valeurs réglementaires indicatives; risque de pénétration percutanée |
| Regulatory reference                               | Arrêté du 30 juin 2004 modifié (réf.: INRS ED 984, 2016)             |
| Germany - Occupational Exposure Limits (TRGS 900)  |  |
| Local name   | Ethandiol  |
| AGW (OEL TWA) [1]                                  | 26 mg/m <sup>3</sup>   |
| AGW (OEL TWA) [2]                                  | 10 ppm   |
| Limitation of exposure peaks                       | 2(I)   |
| Remark   | DFG,EU,H,Y,11  |
| Regulatory reference                               | TRGS900  |
| Greece - Occupational Exposure Limits              |  |
| Local name   | Αιθυλενογλυκόλη (σπμοί)  |
| OEL TWA  | 125 mg/m <sup>3</sup>  |
| OEL TWA [ppm]                                      | 50 ppm   |
| OEL STEL   | 125 mg/m <sup>3</sup>  |
| OEL STEL [ppm]                                     | 50 ppm   |
| Regulatory reference                               | Π.Δ. 90/1999   |
| Italy - Occupational Exposure Limits               |  |
| Local name   | Etilen glicol  |
| OEL TWA  | 52 mg/m <sup>3</sup>   |
| OEL TWA [ppm]                                      | 20 ppm   |
| OEL STEL   | 104 mg/m <sup>3</sup>  |



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| <b>Ethylene glycol (107-21-1)</b>                    |   |
|--|---|
| OEL STEL [ppm]                                       | 40 ppm  |
| Remark   | pelle   |
| Regulatory reference                                 | Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.   |
| <b>Portugal - Occupational Exposure Limits</b>       |   |
| Local name   | Etilenoglicol   |
| OEL Ceiling  | 100 mg/m <sup>3</sup> H (Apenas aerossol)   |
| OEL Ceiling [ppm]                                    | 100 ppm H (Apenas aerossol)   |
| Regulatory reference                                 | Norma Portuguesa NP 1796:2014   |
| <b>Romania - Occupational Exposure Limits</b>        |   |
| Local name   | Etilenglicol/Etandiol   |
| OEL TWA  | 52 mg/m <sup>3</sup>  |
| OEL TWA [ppm]  | 20 ppm  |
| OEL STEL   | 104 mg/m <sup>3</sup>   |
| OEL STEL [ppm]                                       | 40 ppm  |
| Regulatory reference                                 | Hotărârea nr. 584/2018  |
| <b>Spain - Occupational Exposure Limits</b>          |   |
| Local name   | Etilenglicol  |
| VLA-ED (OEL TWA) [1]                                 | 52 mg/m <sup>3</sup>  |
| VLA-ED (OEL TWA) [2]                                 | 20 ppm  |
| VLA-EC (OEL STEL)                                    | 104 mg/m <sup>3</sup>   |
| VLA-EC (OEL STEL) [ppm]                              | 40 ppm  |
| Remark   | Vía dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante. Para más información véase el Apartado 5 de este documento), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo. Todos estos agentes químicos figuran al menos en una de las directivas de valores límite indicativos publicadas hasta ahora (ver Anexo C. Bibliografía). Los estados miembros disponen de un tiempo fijado en dichas directivas para su transposición a los valores límites de cada país miembro. Una vez adoptados, estos valores tienen la misma validez que el resto de los valores adoptados por el país). |
| Regulatory reference                                 | Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT   |
| <b>United Kingdom - Occupational Exposure Limits</b> |   |
| Local name   | Ethane-1,2-diol   |
| WEL TWA [1]  | 10 mg/m <sup>3</sup> particulate<br>52 mg/m <sup>3</sup> vapour   |
| WEL TWA [2]  | 20 ppm vapour   |
| WEL STEL   | 104 mg/m <sup>3</sup> vapour  |
| WEL STEL (ppm)                                       | 40 ppm vapour   |
| 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 (Third edition, 2018). HSE  |

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### 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:

Avoid all unnecessary exposure. EN 374.

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



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Wear security glasses which protect from splashes

#### 8.2.2.2. 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 |          |            |                |             | EN ISO 374 |

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

No respiratory protection needed under normal use conditions. In case of inadequate ventilation wear respiratory protection.

#### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

No additional information available

## SECTION 9: Physical and chemical properties

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

|                |               |
|----------------|---------------|
| Physical state | : Liquid      |
| Colour         | : red. brown. |
| Appearance     | : Solution.   |
| Odour          | : odourless.  |

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

|   |                  |
|---|------------------|
| Odour threshold                                 | : Not available  |
| Melting point                                   | : Not available  |
| Freezing point                                  | : Not available  |
| Boiling point                                   | : Not available  |
| Flammability                                    | : Not available  |
| Lower explosion limit                           | : Not available  |
| Upper explosion limit                           | : Not available  |
| Flash point                                     | : Not available  |
| Auto-ignition temperature                       | : Not available  |
| Decomposition temperature                       | : Not available  |
| pH  | : 8,1            |
| Viscosity, kinematic                            | : Not available  |
| Solubility                                      | : Not available  |
| Partition coefficient n-octanol/water (Log Kow) | : Not available  |
| Vapour pressure                                 | : Not available  |
| Vapour pressure at 50 °C                        | : Not available  |
| Density   | : Not available  |
| Relative density                                | : Not available  |
| Relative vapour density at 20 °C                | : Not available  |
| Particle characteristics                        | : Not applicable |

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions of use.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

Strong acids. Strong bases. Oxidizing agent.

### 10.6. Hazardous decomposition products

No additional information available

## SECTION 11: Toxicological information

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

|                             |                         |
|-----------------------------|-------------------------|
| Acute toxicity (oral)       | : Harmful if swallowed. |
| Acute toxicity (dermal)     | : Not classified        |
| Acute toxicity (inhalation) | : Not classified        |

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| 20 ml total hardness 1 (liquid) |             |
|---------------------------------|-------------|
| LD50 oral rat                   | 4700 mg/kg  |
| LD50 oral                       | 325 mg/kg   |
| LD50 dermal rat                 | 10600 mg/kg |
| LD50 dermal rabbit              | 1350 mg/kg  |

| Ethylene glycol (107-21-1) |                                   |
|----------------------------|-----------------------------------|
| LD50 oral rat              | 7712 mg/kg bodyweight Animal: rat |
| LD50 dermal rat            | > 3500 mg/kg                      |
| LC50 inhalation rat (mg/l) | > 2,5 mg/l/4h                     |

Skin corrosion/irritation : Causes skin irritation.  
pH: 8,1

| Ammonium indicator strips 0-400 mg/l (ppm), 100 strips/pack (1310-73-2) |    |
|---|----|
| pH  | 14 |

Serious eye damage/irritation : Causes serious eye irritation.  
pH: 8,1

| Ammonium indicator strips 0-400 mg/l (ppm), 100 strips/pack (1310-73-2) |    |
|---|----|
| pH  | 14 |

Respiratory or skin sensitisation : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified

| Ethylene glycol (107-21-1)                  |  |
|---|--|
| NOAEL (chronic, oral, animal/male, 2 years) | 1500 mg/kg bodyweight Animal: mouse, Animal sex: male, Remarks on results: other:Effect type: carcinogenicity (migrated information) |

Reproductive toxicity : Not classified  
STOT-single exposure : Not classified  
STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

| Ethylene glycol (107-21-1) |  |
|----------------------------|--|
| STOT-repeated exposure     | May cause damage to organs through prolonged or repeated exposure. |

Aspiration hazard : Not classified

| Ethylene glycol (107-21-1) |                           |
|----------------------------|---------------------------|
| Viscosity, kinematic       | 14,505 mm <sup>2</sup> /s |

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : Not applicable

#### 11.2.2. Other information

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

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

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| 20 ml total hardness 1 (liquid) |                   |
|---------------------------------|-------------------|
| LC50 - Fish [1]                 | 40000 – 60000     |
| EC50 - Daphnia [1]              | 46300 mg/l        |
| EC50 72h - Algae [1]            | 6500 – 13000 mg/l |

| Ethylene glycol (107-21-1) |   |
|----------------------------|---|
| LC50 - Fish [1]            | 72860 mg/l Test organisms (species): Pimephales promelas  |
| EC50 - Daphnia [1]         | > 100 mg/l Test organisms (species): Daphnia magna  |
| EC50 72h - Algae [1]       | > 100 mg/l  |
| EC50 96h - Algae [1]       | 3536 mg/l Test organisms (species): other:greenn algae  |
| EC50 96h - Algae [2]       | 6500 – 13000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| NOEC (chronic)             | ≥ 1000 mg/l Test organisms (species): Americamysis bahia (previous name: Mysidopsis bahia) Duration: '23 d'                                       |

| Ammonium indicator strips 0-400 mg/l (ppm), 100 strips/pack (1310-73-2) |  |
|---|--|
| EC50 - Daphnia [1]  | 40,4 mg/l Test organisms (species): Ceriodaphnia sp. |

### 12.2. Persistence and degradability

| Ethylene glycol (107-21-1) |      |
|----------------------------|------|
| Biodegradation             | 90 % |

### 12.3. Bioaccumulative potential

| Ethylene glycol (107-21-1)                      |       |
|---|-------|
| Partition coefficient n-octanol/water (Log Pow) | -1,36 |
| Bioaccumulative potential                       | Low.  |

| Ammonium indicator strips 0-400 mg/l (ppm), 100 strips/pack (1310-73-2) |                  |
|---|------------------|
| Bioaccumulative potential   | Not established. |

### 12.4. Mobility in soil

| Ethylene glycol (107-21-1) |           |
|----------------------------|-----------|
| Surface tension            | 4,989 N/m |

### 12.5. Results of PBT and vPvB assessment

| 20 ml total hardness 1 (liquid)   |  |
|---|--|
| This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII |  |

| Component                  |  |
|----------------------------|--|
| Ethylene glycol (107-21-1) | PBT: not relevant – no registration required |

### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : Not applicable.

### 12.7. Other adverse effects

Other adverse effects : Do not discharge into drains or rivers.

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods : Must follow special treatment according to local regulation.

### SECTION 14: Transport information

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

#### 14.1. UN number or ID number

UN-No. (ADR) : Not applicable  
UN-No. (IMDG) : Not applicable  
UN-No. (IATA) : Not applicable  
UN-No. (ADN) : Not applicable  
UN-No. (RID) : Not applicable

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable  
Proper Shipping Name (IMDG) : Not applicable  
Proper Shipping Name (IATA) : Not applicable  
Proper Shipping Name (ADN) : Not applicable  
Proper Shipping Name (RID) : Not applicable

#### 14.3. Transport hazard class(es)

##### ADR

Transport hazard class(es) (ADR) : Not applicable

##### IMDG

Transport hazard class(es) (IMDG) : Not applicable

##### IATA

Transport hazard class(es) (IATA) : Not applicable

##### ADN

Transport hazard class(es) (ADN) : Not applicable

##### RID

Transport hazard class(es) (RID) : Not applicable

#### 14.4. Packing group

Packing group (ADR) : Not applicable  
Packing group (IMDG) : Not applicable  
Packing group (IATA) : Not applicable  
Packing group (ADN) : Not applicable  
Packing group (RID) : Not applicable

#### 14.5. Environmental hazards

Other information : No supplementary information available

#### 14.6. Special precautions for user

##### Overland transport

Not applicable

##### Transport by sea

Not applicable

##### Air transport

Not applicable

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### Inland waterway transport

Not applicable

### Rail transport

Not applicable

### 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 REACH substances with Annex XVII restrictions

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

Contains no REACH Annex XIV substances

##### REACH Candidate List (SVHC)

Contains no substance on the REACH candidate list

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

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

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

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

##### Ozone Regulation (1005/2009)

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

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

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

##### Drug Precursors Regulation (273/2004)

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 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

##### 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; dimethylsulfone and dimethylsulfoxide |

##### Germany

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

##### Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

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SZW-lijst van mutagene stoffen : None of the components are listed  
NIET-limitatieve lijst van voor de voortplanting : None of the components are listed  
giftige stoffen – Borstvoeding  
NIET-limitatieve lijst van voor de voortplanting : None of the components are listed  
giftige stoffen – Vruchtbaarheid  
NIET-limitatieve lijst van voor de voortplanting : None of the components are listed  
giftige stoffen – Ontwikkeling

### Denmark

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

### Switzerland

Storage class (LK) : LK 6.1 - Toxic materials

## 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

| Full text of H- and EUH-statements: |  |
|-------------------------------------|--|
| Acute Tox. 4 (Oral)                 | Acute toxicity (oral), Category 4                                  |
| Eye Dam. 1                          | Serious eye damage/eye irritation, Category 1                      |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2                      |
| H290                                | May be corrosive to metals.  |
| H302                                | Harmful if swallowed.  |
| H314                                | Causes severe skin burns and eye damage.                           |
| H315                                | Causes skin irritation.  |
| H318                                | Causes serious eye damage.   |
| H319                                | Causes serious eye irritation.                                     |
| H373                                | May cause damage to organs through prolonged or repeated exposure. |
| Met. Corr. 1                        | Corrosive to metals, Category 1                                    |
| Skin Corr. 1A                       | Skin corrosion/irritation, Category 1A                             |
| Skin Corr. 1B                       | Skin corrosion/irritation, Category 1B                             |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2                              |
| STOT RE 2                           | Specific target organ toxicity — Repeated exposure, Category 2     |

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.



**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form : Mixture  
Name : 10 ml total hardness 2 (liquid)  
Trade name : 10 ml total hardness 2 (liquid)  
Product code : POLR-HL1\_B

**1.2. Relevant identified uses of the substance or mixture and uses advised against****1.2.1. Relevant identified uses**

Main use category : Reagent for water analysis

**1.2.2. Uses advised against**

No additional information available

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

labbox labware s.l.  
Migjorn, 1  
P.O. Box Barcelona (SPAIN)  
08338 Premia de Dalt – SPAIN  
ES  
T +34 937 07 79 70 - F +34 937 909 532  
[info@labbox.com](mailto:info@labbox.com) - [www.labbox.com](http://www.labbox.com)

**1.4. Emergency telephone number**

Emergency number : +34 937 077 970 (For technical information\_Office Hours) In case of medical emergency phone 112 or to your local emergency number.

| Country        | Organisation/Company  | Address                    | Emergency number | Comment |
|----------------|---|----------------------------|------------------|---------|
| United Kingdom | National Poisons Information Service<br>(Belfast Centre)<br>Royal Victoria Hospital | Grosvenor Road<br>BT12 6BA | 0344 892 0111    |         |

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Acute toxicity (oral), Category 4 H302  
Serious eye damage/eye irritation, Category 2 H319  
Specific target organ toxicity — Repeated exposure, Category 2 H373

Full text of H and EUH statements: see section 16

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

No additional information available

**2.2. Label elements****Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP) :



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|                                |   |
|--------------------------------|---|
| Signal word (CLP)              | : Warning   |
| Hazard statements (CLP)        | : H302 - Harmful if swallowed.<br>H319 - Causes serious eye irritation.<br>H373 - May cause damage to organs through prolonged or repeated exposure.  |
| Precautionary statements (CLP) | : P264 - Wash hands, forearms and face thoroughly after handling.<br>P270 - Do not eat, drink or smoke when using this product.<br>P280 - Wear protective gloves/protective clothing/eye protection/face protection.<br>P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.<br>P337+P313 - If eye irritation persists: Get medical advice/attention.<br>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

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII  
Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

| Component                  |  |
|----------------------------|--|
| Ethylene glycol (107-21-1) | PBT: not relevant – no registration required |

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

| Component                 |  |
|---------------------------|--|
| Ethylene glycol(107-21-1) |  |

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name  | Product identifier   | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|--|---------|---|
| Ethylene glycol substance with a Community workplace exposure limit | CAS-No.: 107-21-1<br>EC-No.: 203-473-3<br>EC Index-No.: 603-027-00-1<br>REACH-no: 01-2119456816-28 | 40 – 60 | Acute Tox. 4 (Oral), H302<br>STOT RE 2, H373                    |

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            | : If you feel unwell, seek medical advice (show the label where possible).   |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.   |
| First-aid measures after skin contact | : Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.  |
| First-aid measures after eye contact  | : Immediately rinse with water for a prolonged period while holding the eyelids wide open. 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    | : Rinse mouth out with water. Do not induce vomiting. Get medical advice/attention.  |

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

Symptoms/effects after inhalation : Burning sensation.  
Symptoms/effects after eye contact : redness, itching, tears.

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

Never give anything by mouth to an unconscious person.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Making extinguishing agents environment-friendly.  
Unsuitable extinguishing media : Strong water jet.

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

No additional information available

### 5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire.  
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Do not get in eyes, on skin, or on clothing. Only qualified personnel equipped with suitable protective equipment may intervene.

#### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

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

Methods for cleaning up : Absorb spilled material with sand or earth.  
Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

See Heading 8. For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Avoid any direct contact with the product.  
Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

Storage conditions : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store in a well-ventilated place. Keep container tightly closed.  
Packaging materials : Keep only in the original container in a cool, well-ventilated place away from combustible materials.

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### 7.3. Specific end use(s)

Laboratory chemicals. Reagent for water analysis.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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

| 10 ml total hardness 2 (liquid)                           |                       |
|---|-----------------------|
| <b>EU - Indicative Occupational Exposure Limit (IOEL)</b> |                       |
| IOEL TWA  | 52 mg/m <sup>3</sup>  |
| IOEL TWA [ppm]  | 20 ppm                |
| IOEL STEL   | 104 mg/m <sup>3</sup> |
| IOEL STEL [ppm]   | 40 ppm                |
| <b>Austria - Occupational Exposure Limits</b>             |                       |
| MAK (OEL TWA)   | 26 mg/m <sup>3</sup>  |
| MAK (OEL TWA) [ppm]                                       | 10 ppm                |
| MAK (OEL STEL)  | 52 mg/m <sup>3</sup>  |
| MAK (OEL STEL) [ppm]                                      | 20 ppm                |
| <b>Bulgaria - Occupational Exposure Limits</b>            |                       |
| OEL TWA   | 52 mg/m <sup>3</sup>  |
| OEL TWA [ppm]   | 20 ppm                |
| OEL STEL  | 104 mg/m <sup>3</sup> |
| OEL STEL [ppm]  | 40 ppm                |
| <b>Croatia - Occupational Exposure Limits</b>             |                       |
| GVI (OEL TWA) [1]   | 52 mg/m <sup>3</sup>  |
| GVI (OEL TWA) [2]   | 20 ppm                |
| KGVI (OEL STEL)   | 104 mg/m <sup>3</sup> |
| KGVI (OEL STEL) [ppm]                                     | 40 ppm                |
| <b>Cyprus - Occupational Exposure Limits</b>              |                       |
| OEL TWA   | 52 mg/m <sup>3</sup>  |
| OEL TWA [ppm]   | 20 ppm                |
| OEL STEL  | 104 mg/m <sup>3</sup> |
| OEL STEL [ppm]  | 40 ppm                |
| <b>Czech Republic - Occupational Exposure Limits</b>      |                       |
| PEL (OEL TWA)   | 50 mg/m <sup>3</sup>  |
| NPK-P (OEL Ceiling)                                       | 100 mg/m <sup>3</sup> |
| <b>Denmark - Occupational Exposure Limits</b>             |                       |
| OEL TWA [1]   | 26 mg/m <sup>3</sup>  |
| OEL TWA [2]   | 10 ppm                |

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| 10 ml total hardness 2 (liquid)                          |                       |
|--|-----------------------|
| <b>Estonia - Occupational Exposure Limits</b>            |                       |
| OEL TWA  | 52 mg/m <sup>3</sup>  |
| OEL TWA [ppm]  | 10 ppm                |
| OEL STEL   | 104 mg/m <sup>3</sup> |
| OEL STEL [ppm]   | 40 ppm                |
| <b>Finland - Occupational Exposure Limits</b>            |                       |
| HTP (OEL TWA) [1]  | 50 mg/m <sup>3</sup>  |
| HTP (OEL TWA) [2]  | 20 ppm                |
| HTP (OEL STEL)   | 100 mg/m <sup>3</sup> |
| HTP (OEL STEL) [ppm]                                     | 40 ppm                |
| <b>France - Occupational Exposure Limits</b>             |                       |
| VME (OEL TWA)  | 52 mg/m <sup>3</sup>  |
| VME (OEL TWA) [ppm]                                      | 20 ppm                |
| VLE (OEL Ceiling/STEL)                                   | 104 mg/m <sup>3</sup> |
| VLE (OEL Ceiling/STEL) [ppm]                             | 40 ppm                |
| <b>Germany - Occupational Exposure Limits (TRGS 900)</b> |                       |
| AGW (OEL TWA) [1]  | 26 mg/m <sup>3</sup>  |
| AGW (OEL TWA) [2]  | 10 ppm                |
| <b>Greece - Occupational Exposure Limits</b>             |                       |
| OEL TWA  | 125 mg/m <sup>3</sup> |
| OEL TWA [ppm]  | 50 ppm                |
| OEL STEL   | 125 mg/m <sup>3</sup> |
| OEL STEL [ppm]   | 50 ppm                |
| <b>Hungary - Occupational Exposure Limits</b>            |                       |
| AK (OEL TWA)   | 52 mg/m <sup>3</sup>  |
| CK (OEL STEL)  | 104 mg/m <sup>3</sup> |
| <b>Ireland - Occupational Exposure Limits</b>            |                       |
| OEL TWA [1]  | 10 mg/m <sup>3</sup>  |
| OEL TWA [2]  | 20 ppm                |
| OEL STEL   | 30 mg/m <sup>3</sup>  |
| OEL STEL [ppm]   | 40 ppm                |
| <b>Italy - Occupational Exposure Limits</b>              |                       |
| OEL TWA  | 52 mg/m <sup>3</sup>  |
| OEL TWA [ppm]  | 20 ppm                |
| OEL STEL   | 104 mg/m <sup>3</sup> |
| OEL STEL [ppm]   | 40 ppm                |
| <b>Latvia - Occupational Exposure Limits</b>             |                       |
| OEL TWA  | 52 mg/m <sup>3</sup>  |
| OEL TWA [ppm]  | 20 ppm                |

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| 10 ml total hardness 2 (liquid)                   |                       |
|---|-----------------------|
| OEL STEL  | 37 mg/m <sup>3</sup>  |
| OEL STEL [ppm]                                    | 15 ppm                |
| <b>Lithuania - Occupational Exposure Limits</b>   |                       |
| IPRV (OEL TWA)                                    | 25 mg/m <sup>3</sup>  |
| IPRV (OEL TWA) [ppm]                              | 10 ppm                |
| TPRV (OEL STEL)                                   | 50 mg/m <sup>3</sup>  |
| TPRV (OEL STEL) [ppm]                             | 20 ppm                |
| <b>Luxembourg - Occupational Exposure Limits</b>  |                       |
| OEL TWA   | 25 mg/m <sup>3</sup>  |
| OEL TWA [ppm]                                     | 10 ppm                |
| OEL STEL  | 104 mg/m <sup>3</sup> |
| OEL STEL [ppm]                                    | 40 ppm                |
| <b>Malta - Occupational Exposure Limits</b>       |                       |
| OEL TWA   | 52 mg/m <sup>3</sup>  |
| OEL TWA [ppm]                                     | 20 ppm                |
| OEL STEL  | 104 mg/m <sup>3</sup> |
| OEL STEL [ppm]                                    | 40 ppm                |
| <b>Netherlands - Occupational Exposure Limits</b> |                       |
| MAC-TGG (OEL TWA)                                 | 52 mg/m <sup>3</sup>  |
| MAC-TGG (OEL TWA) [ppm]                           | 10 ppm                |
| MAC-15 (OEL STEL)                                 | 104 mg/m <sup>3</sup> |
| <b>Poland - Occupational Exposure Limits</b>      |                       |
| NDS (OEL TWA)                                     | 15 mg/m <sup>3</sup>  |
| NDSP (OEL Ceiling)                                | 50 mg/m <sup>3</sup>  |
| <b>Portugal - Occupational Exposure Limits</b>    |                       |
| OEL TWA   | 52 mg/m <sup>3</sup>  |
| OEL TWA [ppm]                                     | 20 ppm                |
| OEL STEL  | 104 mg/m <sup>3</sup> |
| OEL STEL [ppm]                                    | 40 ppm                |
| <b>Romania - Occupational Exposure Limits</b>     |                       |
| OEL TWA   | 52 mg/m <sup>3</sup>  |
| OEL TWA [ppm]                                     | 20 ppm                |
| OEL STEL  | 104 mg/m <sup>3</sup> |
| OEL STEL [ppm]                                    | 40 ppm                |
| <b>Slovakia - Occupational Exposure Limits</b>    |                       |
| NPHV (OEL TWA) [1]                                | 52 mg/m <sup>3</sup>  |
| NPHV (OEL TWA) [2]                                | 20 ppm                |
| NPHV (OEL STEL)                                   | 104 mg/m <sup>3</sup> |

# 10 ml total hardness 2 (liquid)

## Safety Data Sheet

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| 10 ml total hardness 2 (liquid)                           |                                 |
|---|---------------------------------|
| <b>Slovenia - Occupational Exposure Limits</b>            |                                 |
| OEL TWA   | 52 mg/m <sup>3</sup>            |
| OEL TWA [ppm]   | 20 ppm                          |
| <b>Spain - Occupational Exposure Limits</b>               |                                 |
| VLA-ED (OEL TWA) [1]                                      | 52 mg/m <sup>3</sup>            |
| VLA-ED (OEL TWA) [2]                                      | 20 ppm                          |
| VLA-EC (OEL STEL)   | 104 mg/m <sup>3</sup>           |
| VLA-EC (OEL STEL) [ppm]                                   | 40 ppm                          |
| <b>Sweden - Occupational Exposure Limits</b>              |                                 |
| NGV (OEL TWA)   | 25 mg/m <sup>3</sup>            |
| NGV (OEL TWA) [ppm]                                       | 10 ppm                          |
| KTV (OEL STEL)  | 104 mg/m <sup>3</sup>           |
| KTV (OEL STEL) [ppm]                                      | 40 ppm                          |
| <b>United Kingdom - Occupational Exposure Limits</b>      |                                 |
| WEL TWA [1]   | 10 mg/m <sup>3</sup>            |
| WEL TWA [2]   | 20 ppm                          |
| WEL STEL  | 104 mg/m <sup>3</sup>           |
| WEL STEL (ppm)  | 40 ppm                          |
| <b>Norway - Occupational Exposure Limits</b>              |                                 |
| Grenseverdi (OEL TWA) [1]                                 | 52 mg/m <sup>3</sup>            |
| Grenseverdi (OEL TWA) [2]                                 | 20 ppm                          |
| Korttidsverdi (OEL STEL)                                  | 104 mg/m <sup>3</sup>           |
| Korttidsverdi (OEL STEL) [ppm]                            | 40 ppm                          |
| <b>Switzerland - Occupational Exposure Limits</b>         |                                 |
| MAK (OEL TWA) [1]   | 26 mg/m <sup>3</sup>            |
| MAK (OEL TWA) [2]   | 10 ppm                          |
| KZGW (OEL STEL)   | 52 mg/m <sup>3</sup>            |
| KZGW (OEL STEL) [ppm]                                     | 20 ppm                          |
| <b>Ethylene glycol (107-21-1)</b>                         |                                 |
| <b>EU - Indicative Occupational Exposure Limit (IOEL)</b> |                                 |
| Local name  | Ethylene glycol                 |
| IOEL TWA  | 52 mg/m <sup>3</sup>            |
| IOEL TWA [ppm]  | 20 ppm                          |
| IOEL STEL   | 104 mg/m <sup>3</sup>           |
| IOEL STEL [ppm]   | 40 ppm                          |
| Remark  | Skin                            |
| Regulatory reference                                      | COMMISSION DIRECTIVE 2000/39/EC |
| <b>France - Occupational Exposure Limits</b>              |                                 |
| Local name  | Ethylèneglycol                  |

# 10 ml total hardness 2 (liquid)

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| <b>Ethylene glycol (107-21-1)</b>                        |  |
|--|--|
| VME (OEL TWA)  | 52 mg/m <sup>3</sup> (vapeur)  |
| VME (OEL TWA) [ppm]                                      | 20 ppm (vapeur)  |
| VLE (OEL Ceiling/STEL)                                   | 104 mg/m <sup>3</sup> (vapeur)                                       |
| VLE (OEL Ceiling/STEL) [ppm]                             | 40 ppm (vapeur)  |
| Remark   | Valeurs règlementaires indicatives; risque de pénétration percutanée |
| Regulatory reference                                     | Arrêté du 30 juin 2004 modifié (réf.: INRS ED 984, 2016)             |
| <b>Germany - Occupational Exposure Limits (TRGS 900)</b> |  |
| Local name   | Ethandiol  |
| AGW (OEL TWA) [1]  | 26 mg/m <sup>3</sup>   |
| AGW (OEL TWA) [2]  | 10 ppm   |
| Limitation of exposure peaks                             | 2(l)   |
| Remark   | DFG,EU,H,Y,11  |
| Regulatory reference                                     | TRGS900  |
| <b>Greece - Occupational Exposure Limits</b>             |  |
| Local name   | Αιθυλενογλυκόλη (σπμσί)  |
| OEL TWA  | 125 mg/m <sup>3</sup>  |
| OEL TWA [ppm]  | 50 ppm   |
| OEL STEL   | 125 mg/m <sup>3</sup>  |
| OEL STEL [ppm]   | 50 ppm   |
| Regulatory reference                                     | Π.Δ. 90/1999   |
| <b>Italy - Occupational Exposure Limits</b>              |  |
| Local name   | Etilen glicol  |
| OEL TWA  | 52 mg/m <sup>3</sup>   |
| OEL TWA [ppm]  | 20 ppm   |
| OEL STEL   | 104 mg/m <sup>3</sup>  |
| OEL STEL [ppm]   | 40 ppm   |
| Remark   | pelle  |
| Regulatory reference                                     | Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.            |
| <b>Portugal - Occupational Exposure Limits</b>           |  |
| Local name   | Etilenoglicol  |
| OEL Ceiling  | 100 mg/m <sup>3</sup> H (Apenas aerossol)                            |
| OEL Ceiling [ppm]  | 100 ppm H (Apenas aerossol)  |
| Regulatory reference                                     | Norma Portuguesa NP 1796:2014  |
| <b>Romania - Occupational Exposure Limits</b>            |  |
| Local name   | Etilenglicol/Etandiol  |
| OEL TWA  | 52 mg/m <sup>3</sup>   |
| OEL TWA [ppm]  | 20 ppm   |
| OEL STEL   | 104 mg/m <sup>3</sup>  |
| OEL STEL [ppm]   | 40 ppm   |



# 10 ml total hardness 2 (liquid)

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| Ethylene glycol (107-21-1)                           |   |
|--|---|
| Regulatory reference                                 | Hotărârea nr. 584/2018  |
| <b>Spain - Occupational Exposure Limits</b>          |   |
| Local name   | Etilenglicol  |
| VLA-ED (OEL TWA) [1]                                 | 52 mg/m <sup>3</sup>  |
| VLA-ED (OEL TWA) [2]                                 | 20 ppm  |
| VLA-EC (OEL STEL)                                    | 104 mg/m <sup>3</sup>   |
| VLA-EC (OEL STEL) [ppm]                              | 40 ppm  |
| Remark   | Vía dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante. Para más información véase el Apartado 5 de este documento), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo. Todos estos agentes químicos figuran al menos en una de las directivas de valores límite indicativos publicadas hasta ahora (ver Anexo C. Bibliografía). Los estados miembros disponen de un tiempo fijado en dichas directivas para su transposición a los valores límites de cada país miembro. Una vez adoptados, estos valores tienen la misma validez que el resto de los valores adoptados por el país). |
| Regulatory reference                                 | Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT   |
| <b>United Kingdom - Occupational Exposure Limits</b> |   |
| Local name   | Ethane-1,2-diol   |
| WEL TWA [1]  | 10 mg/m <sup>3</sup> particulate<br>52 mg/m <sup>3</sup> vapour   |
| WEL TWA [2]  | 20 ppm vapour   |
| WEL STEL   | 104 mg/m <sup>3</sup> vapour  |
| WEL STEL (ppm)                                       | 40 ppm vapour   |
| 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 (Third edition, 2018). HSE  |

### 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:

Avoid all unnecessary exposure. EN 374.

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### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Wear security glasses which protect from splashes

#### 8.2.2.2. 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 |          |            |                |             | EN ISO 374 |

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

No respiratory protection needed under normal use conditions. In case of inadequate ventilation wear respiratory protection.

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

No additional information available

## SECTION 9: Physical and chemical properties

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

|   |                  |
|---|------------------|
| Physical state                                  | : Liquid         |
| Colour  | : Colourless.    |
| Appearance                                      | : Solution.      |
| Odour   | : Not available  |
| Odour threshold                                 | : Not available  |
| Melting point                                   | : Not available  |
| Freezing point                                  | : Not available  |
| Boiling point                                   | : Not available  |
| Flammability                                    | : Not available  |
| Lower explosion limit                           | : Not available  |
| Upper explosion limit                           | : Not available  |
| Flash point                                     | : Not available  |
| Auto-ignition temperature                       | : 398 °C         |
| Decomposition temperature                       | : Not available  |
| pH  | : Not available  |
| Viscosity, kinematic                            | : Not available  |
| Solubility                                      | : Not available  |
| Partition coefficient n-octanol/water (Log Kow) | : Not available  |
| Vapour pressure                                 | : Not available  |
| Vapour pressure at 50 °C                        | : Not available  |
| Density   | : Not available  |
| Relative density                                | : Not available  |
| Relative vapour density at 20 °C                | : Not available  |
| Particle characteristics                        | : Not applicable |

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### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions of use.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

No additional information available

## SECTION 11: Toxicological information

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

Acute toxicity (oral) : Harmful if swallowed.  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

| 10 ml total hardness 2 (liquid) |             |
|---------------------------------|-------------|
| LD50 oral rat                   | 4700 mg/kg  |
| LD50 oral                       | 3310 mg/kg  |
| LD50 dermal rat                 | 10600 mg/kg |
| LD50 dermal rabbit              | 1060 mg/kg  |
| LC50 inhalation rat (mg/l)      | 11,4 mg/l   |

### Ethylene glycol (107-21-1)

|                            |                                   |
|----------------------------|-----------------------------------|
| LD50 oral rat              | 7712 mg/kg bodyweight Animal: rat |
| LD50 dermal rat            | > 3500 mg/kg                      |
| LC50 inhalation rat (mg/l) | > 2,5 mg/l/4h                     |

Skin corrosion/irritation : Not classified  
Serious eye damage/irritation : Causes serious eye irritation.  
Respiratory or skin sensitisation : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified

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| Ethylene glycol (107-21-1)                  |  |
|---|--|
| NOAEL (chronic, oral, animal/male, 2 years) | 1500 mg/kg bodyweight Animal: mouse, Animal sex: male, Remarks on results: other:Effect type: carcinogenicity (migrated information) |

Reproductive toxicity : Not classified  
STOT-single exposure : Not classified  
STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

| Ethylene glycol (107-21-1) |  |
|----------------------------|--|
| STOT-repeated exposure     | May cause damage to organs through prolonged or repeated exposure. |

| Masson, Trichrome Standard_F |  |
|------------------------------|--|
| NOAEL (oral, rat, 90 days)   | 290 mg/kg bodyweight Animal: rat, Animal sex: male |

Aspiration hazard : Not classified

| Ethylene glycol (107-21-1) |                           |
|----------------------------|---------------------------|
| Viscosity, kinematic       | 14,505 mm <sup>2</sup> /s |

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : Not applicable

#### 11.2.2. Other information

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

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

Hazardous to the aquatic environment, long-term (chronic) : Not classified

| 10 ml total hardness 2 (liquid) |                   |
|---------------------------------|-------------------|
| LC50 - Fish [1]                 | 14 – 18           |
| EC50 - Daphnia [1]              | 46300 mg/l        |
| EC50 72h - Algae [1]            | 6500 – 13000 mg/l |

| Ethylene glycol (107-21-1) |   |
|----------------------------|---|
| LC50 - Fish [1]            | 72860 mg/l Test organisms (species): Pimephales promelas  |
| EC50 - Daphnia [1]         | > 100 mg/l Test organisms (species): Daphnia magna  |
| EC50 72h - Algae [1]       | > 100 mg/l  |
| EC50 96h - Algae [1]       | 3536 mg/l Test organisms (species): other:greenn algae  |
| EC50 96h - Algae [2]       | 6500 – 13000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| NOEC (chronic)             | ≥ 1000 mg/l Test organisms (species): Americamysis bahia (previous name: Mysidopsis bahia) Duration: '23 d'                                       |

### 12.2. Persistence and degradability

| Ethylene glycol (107-21-1) |      |
|----------------------------|------|
| Biodegradation             | 90 % |

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### 12.3. Bioaccumulative potential

#### Ethylene glycol (107-21-1)

|   |       |
|---|-------|
| Partition coefficient n-octanol/water (Log Pow) | -1,36 |
| Bioaccumulative potential                       | Low.  |

### 12.4. Mobility in soil

#### Ethylene glycol (107-21-1)

|                 |           |
|-----------------|-----------|
| Surface tension | 4,989 N/m |
|-----------------|-----------|

### 12.5. Results of PBT and vPvB assessment

#### 10 ml total hardness 2 (liquid)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

#### Component

|                            |  |
|----------------------------|--|
| Ethylene glycol (107-21-1) | PBT: not relevant – no registration required |
|----------------------------|--|

### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : Not applicable.

### 12.7. Other adverse effects

Other adverse effects : Do not discharge into drains or rivers.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Must follow special treatment according to local regulation.

## SECTION 14: Transport information

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

### 14.1. UN number or ID number

|               |                  |
|---------------|------------------|
| UN-No. (ADR)  | : Not applicable |
| UN-No. (IMDG) | : Not applicable |
| UN-No. (IATA) | : Not applicable |
| UN-No. (ADN)  | : Not applicable |
| UN-No. (RID)  | : Not applicable |

### 14.2. UN proper shipping name

|                             |                  |
|-----------------------------|------------------|
| Proper Shipping Name (ADR)  | : Not applicable |
| Proper Shipping Name (IMDG) | : Not applicable |
| Proper Shipping Name (IATA) | : Not applicable |
| Proper Shipping Name (ADN)  | : Not applicable |
| Proper Shipping Name (RID)  | : Not applicable |

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : Not applicable

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### IMDG

Transport hazard class(es) (IMDG) : Not applicable

### IATA

Transport hazard class(es) (IATA) : Not applicable

### ADN

Transport hazard class(es) (ADN) : Not applicable

### RID

Transport hazard class(es) (RID) : Not applicable

## 14.4. Packing group

Packing group (ADR) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

Packing group (ADN) : Not applicable

Packing group (RID) : Not applicable

## 14.5. Environmental hazards

Other information : No supplementary information available

## 14.6. Special precautions for user

### Overland transport

Not applicable

### Transport by sea

Not applicable

### Air transport

Not applicable

### Inland waterway transport

Not applicable

### Rail transport

Not applicable

## 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 REACH substances with Annex XVII restrictions

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

Contains no REACH Annex XIV substances

##### REACH Candidate List (SVHC)

Contains no substance on the REACH candidate list

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

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

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### POP Regulation (Persistent Organic Pollutants)

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

### Ozone Regulation (1005/2009)

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

### Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

### Drug Precursors Regulation (273/2004)

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 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

### 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; dimethylsulfone and dimethylsulfoxide |

### Germany

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

### Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed  
SZW-lijst van mutagene stoffen : None of the components are listed  
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed  
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed  
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

### Denmark

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

### Switzerland

Storage class (LK) : LK 6.1 - Toxic materials

## 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

| Full text of H- and EUH-statements: |                                   |
|-------------------------------------|-----------------------------------|
| Acute Tox. 4 (Oral)                 | Acute toxicity (oral), Category 4 |
| H302                                | Harmful if swallowed.             |
| H319                                | Causes serious eye irritation.    |

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| Full text of H- and EUH-statements: |  |
|-------------------------------------|--|
| H373                                | May cause damage to organs through prolonged or repeated exposure. |
| STOT RE 2                           | Specific target organ toxicity — Repeated exposure, Category 2     |

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.