



**Art nr. 1354/1454**  
**Clear Vision**

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

- 1.1 Product identifier:** Art nr. 1354/1454  
Clear Vision
- Other means of identification:**  
Non-applicable
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
Relevant uses: Windowcleaner  
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Details of the supplier of the safety data sheet:**  
4M Specialties  
Appelhof 15  
8465RX Oudehaske - Nederland  
Phone: +31(0)6-17191716  
info@4msp.nl  
www.great-lion.com
- 1.4 Emergency telephone number:** +31(0)6-17191716 Mon-Fri 08.30-17.30 hrs

**SECTION 2: HAZARDS IDENTIFICATION**

- 2.1 Classification of the substance or mixture:**  
**CLP Regulation (EC) No 1272/2008:**  
Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.  
Eye Irrit. 2: Eye irritation, Category 2, H319  
Flam. Liq. 3: Flammable liquids, Category 3, H226
- 2.2 Label elements:**  
**CLP Regulation (EC) No 1272/2008:**  
**Warning**
-  
- Hazard statements:**  
Eye Irrit. 2: H319 - Causes serious eye irritation.  
Flam. Liq. 3: H226 - Flammable liquid and vapour.
- Precautionary statements:**  
P101: If medical advice is needed, have product container or label at hand.  
P102: Keep out of reach of children.  
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P264: Wash thoroughly after handling.  
P280: Wear protective gloves/protective clothing/eye protection/protective footwear.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P370+P378: In case of fire: Use ABC powder extinguisher to extinguish.  
P501: Dispose of contents/container according to the separated collection system used in your municipality.
- Supplementary information:**  
EUH208: Contains 2-methylisothiazol-3(2H)-one, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.
- 2.3 Other hazards:**  
Product fails to meet PBT/vPvB criteria  
Endocrine-disrupting properties: The product fails to meet the criteria.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

- 3.1 Substance:**  
Non-applicable
- 3.2 Mixture:**

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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)**
**Chemical description:** Aqueous mixture composed of alcohols and colourants

**Components:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

| Identification   | Chemical name/Classification   |  | Concentration        |
|--|--|--|----------------------|
| CAS: 67-63-0<br>EC: 200-661-7<br>Index: 603-117-00-0<br>REACH: 01-2119457558-25-XXXX   | <b>propan-2-ol<sup>(1)</sup></b>   | ATP CLP00  | <b>10 - &lt;25 %</b> |
|  | Regulation 1272/2008   | Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336 - Danger   |                      |
| CAS: 141-78-6<br>EC: 205-500-4<br>Index: 607-022-00-5<br>REACH: 01-2119475103-46-XXXX  | <b>Ethyl acetate<sup>(2)</sup></b>   | ATP CLP00  | <b>&lt;0,01 %</b>    |
|  | Regulation 1272/2008   | Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336; EUH066 - Danger   |                      |
| CAS: 55965-84-9<br>EC: Non-applicable<br>Index: 613-167-00-5<br>REACH: Non-applicable  | <b>reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)<sup>(1)</sup></b> | ATP ATP1   | <b>&lt;0,01 %</b>    |
|  | Regulation 1272/2008   | Acute Tox. 2: H310+H330; Acute Tox. 3: H301; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Dam. 1: H318; Skin Corr. 1C: H314; Skin Sens. 1A: H317; EUH071 - Danger |                      |
| CAS: 2682-20-4<br>EC: 220-239-6<br>Index: 613-326-00-9<br>REACH: 01-2120764690-50-XXXX | <b>2-methylisothiazol-3(2H)-one<sup>(1)</sup></b>  | ATP ATP1   | <b>&lt;0,01 %</b>    |
|  | Regulation 1272/2008   | Acute Tox. 2: H330; Acute Tox. 3: H301+H311; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Dam. 1: H318; Skin Corr. 1B: H314; Skin Sens. 1A: H317; EUH071 - Danger |                      |

<sup>(1)</sup> Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

<sup>(2)</sup> Substance with a Union workplace exposure limit

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

**Other information:**

| Identification  | M-factor |     |
|---|----------|-----|
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | Acute    | 100 |
| CAS: 55965-84-9 EC: Non-applicable  | Chronic  | 100 |
| 2-methylisothiazol-3(2H)-one  | Acute    | 10  |
| CAS: 2682-20-4 EC: 220-239-6  | Chronic  | 1   |

| Identification   | Specific concentration limit   |
|--|--|
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)<br>CAS: 55965-84-9<br>EC: Non-applicable | % (w/w) >=0,6: Skin Corr. 1C - H314<br>0,06<= % (w/w) <0,6: Skin Irrit. 2 - H315<br>% (w/w) >=0,6: Eye Dam. 1 - H318<br>0,06<= % (w/w) <0,6: Eye Irrit. 2 - H319<br>% (w/w) >=0,0015: Skin Sens. 1A - H317 |
| 2-methylisothiazol-3(2H)-one<br>CAS: 2682-20-4<br>EC: 220-239-6  | % (w/w) >=0,0015: Skin Sens. 1A - H317   |

**SECTION 4: FIRST AID MEASURES**
**4.1 Description of first aid measures:**

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

**By inhalation:**

This product is not classified as hazardous through inhalation. However, in case of intoxication symptoms it is recommended to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

**By skin contact:**

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

**By eye contact:**

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case removal could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS for the product.

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Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

**4.2 Most important symptoms and effects, both acute and delayed:**

Acute and delayed effects are indicated in sections 2 and 11.

**4.3 Indication of any immediate medical attention and special treatment needed:**

Non-applicable

**SECTION 5: FIREFIGHTING MEASURES****5.1 Extinguishing media:****Suitable extinguishing media:**

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO<sub>2</sub>).

**Unsuitable extinguishing media:**

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

**5.2 Special hazards arising from the substance or mixture:**

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

**5.3 Advice for firefighters:**

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

**Additional provisions:**

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures:****For non-emergency personnel:**

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

**For emergency responders:**

See section 8.

**6.2 Environmental precautions:**

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

**6.3 Methods and material for containment and cleaning up:**

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

**6.4 Reference to other sections:**

See sections 8 and 13.

**SECTION 7: HANDLING AND STORAGE****7.1 Precautions for safe handling:**

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**SECTION 7: HANDLING AND STORAGE (continued)**
**A.- General precautions for safe use**

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

**B.- Technical recommendations for the prevention of fires and explosions**

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 2014/34/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). Consult section 10 for conditions and materials that should be avoided.

**C.- Technical recommendations on general occupational hygiene**

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

**D.- Technical recommendations to prevent environmental risks**

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

**7.2 Conditions for safe storage, including any incompatibilities:**
**A.- Technical measures for storage**

|                |           |
|----------------|-----------|
| Minimum Temp.: | 5 °C      |
| Maximum Temp.: | 30 °C     |
| Maximum time:  | 48 Months |

**B.- General conditions for storage**

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

**7.3 Specific end use(s):**

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**
**8.1 Control parameters:**

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

Directive (EU) 2000/39, Directive 2004/37/EC, Directive (EU) 2006/15, Directive (EU) 2009/161, Directive (EU) 2017/164, Directive (EU) 2019/1831:

| Identification                               |  | Occupational exposure limits |         |                        |
|--|--|------------------------------|---------|------------------------|
| Ethyl acetate<br>CAS: 141-78-6 EC: 205-500-4 |  | IOELV (8h)                   | 200 ppm | 734 mg/m <sup>3</sup>  |
|  |  | IOELV (STEL)                 | 400 ppm | 1468 mg/m <sup>3</sup> |

**DNEL (Workers):**

| Identification  |            | Short exposure         |                         | Long exposure         |                         |
|---|------------|------------------------|-------------------------|-----------------------|-------------------------|
|   |            | Systemic               | Local                   | Systemic              | Local                   |
| propan-2-ol<br>CAS: 67-63-0<br>EC: 200-661-7                    | Oral       | Non-applicable         | Non-applicable          | Non-applicable        | Non-applicable          |
|   | Dermal     | Non-applicable         | Non-applicable          | 888 mg/kg             | Non-applicable          |
|   | Inhalation | Non-applicable         | Non-applicable          | 500 mg/m <sup>3</sup> | Non-applicable          |
| Ethyl acetate<br>CAS: 141-78-6<br>EC: 205-500-4                 | Oral       | Non-applicable         | Non-applicable          | Non-applicable        | Non-applicable          |
|   | Dermal     | Non-applicable         | Non-applicable          | 63 mg/kg              | Non-applicable          |
|   | Inhalation | 1468 mg/m <sup>3</sup> | 1468 mg/m <sup>3</sup>  | 734 mg/m <sup>3</sup> | 734 mg/m <sup>3</sup>   |
| 2-methylisothiazol-3(2H)-one<br>CAS: 2682-20-4<br>EC: 220-239-6 | Oral       | Non-applicable         | Non-applicable          | Non-applicable        | Non-applicable          |
|   | Dermal     | Non-applicable         | Non-applicable          | Non-applicable        | Non-applicable          |
|   | Inhalation | Non-applicable         | 0,043 mg/m <sup>3</sup> | Non-applicable        | 0,021 mg/m <sup>3</sup> |

**DNEL (General population):**

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

| Identification               |            | Short exposure        |                         | Long exposure         |                         |
|------------------------------|------------|-----------------------|-------------------------|-----------------------|-------------------------|
|                              |            | Systemic              | Local                   | Systemic              | Local                   |
| propan-2-ol                  | Oral       | Non-applicable        | Non-applicable          | 26 mg/kg              | Non-applicable          |
| CAS: 67-63-0                 | Dermal     | Non-applicable        | Non-applicable          | 319 mg/kg             | Non-applicable          |
| EC: 200-661-7                | Inhalation | Non-applicable        | Non-applicable          | 89 mg/m <sup>3</sup>  | Non-applicable          |
| Ethyl acetate                | Oral       | Non-applicable        | Non-applicable          | 4,5 mg/kg             | Non-applicable          |
| CAS: 141-78-6                | Dermal     | Non-applicable        | Non-applicable          | 37 mg/kg              | Non-applicable          |
| EC: 205-500-4                | Inhalation | 734 mg/m <sup>3</sup> | 734 mg/m <sup>3</sup>   | 367 mg/m <sup>3</sup> | 367 mg/m <sup>3</sup>   |
| 2-methylisothiazol-3(2H)-one | Oral       | 0,053 mg/kg           | Non-applicable          | 0,027 mg/kg           | Non-applicable          |
| CAS: 2682-20-4               | Dermal     | Non-applicable        | Non-applicable          | Non-applicable        | Non-applicable          |
| EC: 220-239-6                | Inhalation | Non-applicable        | 0,043 mg/m <sup>3</sup> | Non-applicable        | 0,021 mg/m <sup>3</sup> |

**PNEC:**

| Identification  |              |                |                         |                |  |
|---|--------------|----------------|-------------------------|----------------|--|
| propan-2-ol<br>CAS: 67-63-0<br>EC: 200-661-7                    | STP          | 2251 mg/L      | Fresh water             | 140,9 mg/L     |  |
|   | Soil         | 28 mg/kg       | Marine water            | 140,9 mg/L     |  |
|   | Intermittent | 140,9 mg/L     | Sediment (Fresh water)  | 552 mg/kg      |  |
|   | Oral         | 0,16 g/kg      | Sediment (Marine water) | 552 mg/kg      |  |
| Ethyl acetate<br>CAS: 141-78-6<br>EC: 205-500-4                 | STP          | 650 mg/L       | Fresh water             | 0,24 mg/L      |  |
|   | Soil         | 0,148 mg/kg    | Marine water            | 0,024 mg/L     |  |
|   | Intermittent | 1,65 mg/L      | Sediment (Fresh water)  | 1,15 mg/kg     |  |
|   | Oral         | 0,2 g/kg       | Sediment (Marine water) | 0,115 mg/kg    |  |
| 2-methylisothiazol-3(2H)-one<br>CAS: 2682-20-4<br>EC: 220-239-6 | STP          | 0,23 mg/L      | Fresh water             | 0,00339 mg/L   |  |
|   | Soil         | 0,047 mg/kg    | Marine water            | 0,00339 mg/L   |  |
|   | Intermittent | 0,00339 mg/L   | Sediment (Fresh water)  | Non-applicable |  |
|   | Oral         | Non-applicable | Sediment (Marine water) | Non-applicable |  |

**8.2 Exposure controls:**



A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection



The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

C.- Specific protection for the hands

| Pictogram  | PPE   | Labelling   | CEN Standard        | Remarks  |
|--|---|---|---------------------|--|
| <br>Mandatory hand protection | Chemical protective gloves<br>(Material: Linear low-density polyethylene (LLDPE),<br>Breakthrough time: > 480 min, Thickness: 0.062 mm) |  | EN 420:2004+A1:2010 | Replace the gloves at any sign of deterioration. |

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection





| Pictogram  | PPE   | Labelling   | CEN Standard                    | Remarks   |
|--|---|---|---------------------------------|---|
| <br>Mandatory face protection | Panoramic glasses against splash/projections. |  | EN 166:2002<br>EN ISO 4007:2018 | Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. |

E.- Body protection



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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

| Pictogram   | PPE   | Labelling  | CEN Standard   | Remarks                                     |
|---|---|--|--|---|
| <br>Mandatory complete body protection | Antistatic and fireproof protective clothing                  | <br>CAT III | EN 1149-1:2006<br>EN 1149-2:1997<br>EN 1149-3:2004<br>EN 168:2002<br>EN ISO 14116:2015<br>EN 1149-5:2018 | Limited protection against flames.          |
| <br>Mandatory foot protection          | Safety footwear with antistatic and heat resistant properties | <br>CAT III | EN ISO 13287:2013<br>EN ISO 20345:2011   | Replace boots at any sign of deterioration. |

**F.- Additional emergency measures**

| Emergency measure   | Standards                                       | Emergency measure  | Standards                                      |
|---|---|--|--|
| <br>Emergency shower | ANSI Z358-1<br>ISO 3864-1:2011, ISO 3864-4:2011 | <br>Eyewash stations | DIN 12 899<br>ISO 3864-1:2011, ISO 3864-4:2011 |

**Environmental exposure controls:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

**Volatile organic compounds:**

With regard to Directive 2010/75/EU, this product has the following characteristics:


|                           |                                       |
|---------------------------|---------------------------------------|
| V.O.C. (Supply):          | 12,01 % weight                        |
| V.O.C. density at 20 °C:  | 119,63 kg/m <sup>3</sup> (119,63 g/L) |
| Average carbon number:    | 3                                     |
| Average molecular weight: | 60,15 g/mol                           |

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties:**

For complete information see the product datasheet.

**Appearance:**

|                          |  |
|--------------------------|--|
| Physical state at 20 °C: | Liquid   |
| Appearance:              | Not available  |
| Colour:                  |  Blue |
| Odour:                   | Characteristic   |
| Odour threshold:         | Non-applicable *   |

**Volatility:**

|  |                         |
|--|-------------------------|
| Boiling point at atmospheric pressure: | 97 °C                   |
| Vapour pressure at 20 °C:              | 2459 Pa                 |
| Vapour pressure at 50 °C:              | 12906,69 Pa (12,91 kPa) |
| Evaporation rate at 20 °C:             | Non-applicable *        |

**Product description:**

|                               |                         |
|-------------------------------|-------------------------|
| Density at 20 °C:             | 995,8 kg/m <sup>3</sup> |
| Relative density at 20 °C:    | 0,996                   |
| Dynamic viscosity at 20 °C:   | Non-applicable *        |
| Kinematic viscosity at 20 °C: | Non-applicable *        |
| Kinematic viscosity at 40 °C: | Non-applicable *        |
| Concentration:                | Non-applicable *        |

\*Not relevant due to the nature of the product, not providing information property of its hazards.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)**

|  |                  |
|--|------------------|
| pH:  | 7                |
| Vapour density at 20 °C:                     | Non-applicable * |
| Partition coefficient n-octanol/water 20 °C: | Non-applicable * |
| Solubility in water at 20 °C:                | Non-applicable * |
| Solubility properties:                       | Non-applicable * |
| Decomposition temperature:                   | Non-applicable * |
| Melting point/freezing point:                | Non-applicable * |

**Flammability:**

|                            |                  |
|----------------------------|------------------|
| Flash Point:               | 44 °C            |
| Flammability (solid, gas): | Non-applicable * |
| Autoignition temperature:  | 235 °C           |
| Lower flammability limit:  | Not available    |
| Upper flammability limit:  | Not available    |

**Particle characteristics:**

|                             |                |
|-----------------------------|----------------|
| Median equivalent diameter: | Non-applicable |
|-----------------------------|----------------|

**9.2 Other information:**
**Information with regard to physical hazard classes:**

|  |                  |
|--|------------------|
| Explosive properties:  | Non-applicable * |
| Oxidising properties:  | Non-applicable * |
| Corrosive to metals:   | Non-applicable * |
| Heat of combustion:  | Non-applicable * |
| Aerosols-total percentage (by mass) of flammable components: | Non-applicable * |

**Other safety characteristics:**

|                           |                  |
|---------------------------|------------------|
| Surface tension at 20 °C: | Non-applicable * |
| Refraction index:         | Non-applicable * |

\*Not relevant due to the nature of the product, not providing information property of its hazards.

**SECTION 10: STABILITY AND REACTIVITY**
**10.1 Reactivity:**

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

**10.2 Chemical stability:**

Chemically stable under the indicated conditions of storage, handling and use.

**10.3 Possibility of hazardous reactions:**

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

**10.4 Conditions to avoid:**

Applicable for handling and storage at room temperature:

| Shock and friction | Contact with air | Increase in temperature | Sunlight            | Humidity       |
|--------------------|------------------|-------------------------|---------------------|----------------|
| Not applicable     | Not applicable   | Risk of combustion      | Avoid direct impact | Not applicable |

**10.5 Incompatible materials:**

| Acids              | Water          | Oxidising materials | Combustible materials | Others                        |
|--------------------|----------------|---------------------|-----------------------|-------------------------------|
| Avoid strong acids | Not applicable | Avoid direct impact | Not applicable        | Avoid alkalis or strong bases |

**10.6 Hazardous decomposition products:**

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

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**SECTION 11: TOXICOLOGICAL INFORMATION**
**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:**

The experimental information related to the toxicological properties of the product itself is not available

**Dangerous health implications:**

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

**A- Ingestion (acute effect):**

- Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

**B- Inhalation (acute effect):**

- Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract

**C- Contact with the skin and the eyes (acute effect):**

- Contact with the skin: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for skin contact. For more information see section 3.
- Contact with the eyes: Produces eye damage after contact.

**D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):**

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.  
IARC: propan-2-ol (3); d-limonene (3)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

**E- Sensitizing effects:**

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with sensitising effects. For more information see section 3.

**F- Specific target organ toxicity (STOT) - single exposure:**

Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.

**G- Specific target organ toxicity (STOT)-repeated exposure:**

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met. However, it does contain substances which are classified as dangerous due to repetitive exposure. For more information see section 3.

**H- Aspiration hazard:**

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

**Other information:**

Non-applicable

**Specific toxicology information on the substances:**

| Identification                                  | Acute toxicity  |                 | Genus  |
|---|-----------------|-----------------|--------|
| propan-2-ol<br>CAS: 67-63-0<br>EC: 200-661-7    | LD50 oral       | 5280 mg/kg      | Rat    |
|   | LD50 dermal     | 12800 mg/kg     | Rat    |
|   | LC50 inhalation | 72,6 mg/L (4 h) | Rat    |
| Ethyl acetate<br>CAS: 141-78-6<br>EC: 205-500-4 | LD50 oral       | 4100 mg/kg      | Rat    |
|   | LD50 dermal     | 20000 mg/kg     | Rabbit |
|   | LC50 inhalation | >20 mg/L        |        |

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**SECTION 11: TOXICOLOGICAL INFORMATION (continued)**

| Identification   | Acute toxicity  |                 | Genus  |
|--|-----------------|-----------------|--------|
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)<br>CAS: 55965-84-9<br>EC: Non-applicable | LD50 oral       | 64 mg/kg        | Rat    |
|  | LD50 dermal     | 87,12 mg/kg     | Rabbit |
|  | LC50 inhalation | 0,33 mg/L (4 h) | Rat    |
| 2-methylisothiazol-3(2H)-one<br>CAS: 2682-20-4<br>EC: 220-239-6  | LD50 oral       | 120 mg/kg       | Rat    |
|  | LD50 dermal     | 242 mg/kg       | Rat    |
|  | LC50 inhalation | >20 mg/L        |        |

**11.2 Information on other hazards:**
**Endocrine disrupting properties**

Endocrine-disrupting properties: The product fails to meet the criteria.

**Other information**

Non-applicable

**SECTION 12: ECOLOGICAL INFORMATION**

The experimental information related to the eco-toxicological properties of the product itself is not available

**12.1 Toxicity:**
**Acute toxicity:**

| Identification   | Concentration          | Species                 | Genus      |
|--|------------------------|-------------------------|------------|
| propan-2-ol<br>CAS: 67-63-0<br>EC: 200-661-7   | LC50 9640 mg/L (96 h)  | Pimephales promelas     | Fish       |
|  | EC50 13299 mg/L (48 h) | Daphnia magna           | Crustacean |
|  | EC50 1000 mg/L (72 h)  | Scenedesmus subspicatus | Algae      |
| Ethyl acetate<br>CAS: 141-78-6<br>EC: 205-500-4  | LC50 230 mg/L (96 h)   | Pimephales promelas     | Fish       |
|  | EC50 717 mg/L (48 h)   | Daphnia magna           | Crustacean |
|  | EC50 3300 mg/L (48 h)  | Scenedesmus subspicatus | Algae      |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)<br>CAS: 55965-84-9<br>EC: Non-applicable | LC50 >0.1 - 1 (96 h)   |                         | Fish       |
|  | EC50 >0.1 - 1 (48 h)   |                         | Crustacean |
|  | EC50 >0.1 - 1 (72 h)   |                         | Algae      |
| 2-methylisothiazol-3(2H)-one<br>CAS: 2682-20-4<br>EC: 220-239-6  | LC50 4,77 mg/L (96 h)  | Oncorhynchus mykiss     | Fish       |
|  | EC50 0,934 mg/L (48 h) | Daphnia magna           | Crustacean |
|  | EC50 Non-applicable    |                         |            |

**Chronic toxicity:**

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**SECTION 12: ECOLOGICAL INFORMATION (continued)**

| Identification               | Concentration   | Species             | Genus      |
|------------------------------|-----------------|---------------------|------------|
| Ethyl acetate                | NOEC 9,65 mg/L  | Pimephales promelas | Fish       |
| CAS: 141-78-6 EC: 205-500-4  | NOEC 2,4 mg/L   | Daphnia magna       | Crustacean |
| 2-methylisothiazol-3(2H)-one | NOEC 4,93 mg/L  | Oncorhynchus mykiss | Fish       |
| CAS: 2682-20-4 EC: 220-239-6 | NOEC 0,044 mg/L | Daphnia magna       | Crustacean |

**12.2 Persistence and degradability:**

| Identification               | Degradability                 | Biodegradability       |
|------------------------------|-------------------------------|------------------------|
| propan-2-ol                  | BOD5 1,19 g O <sub>2</sub> /g | Concentration 100 mg/L |
| CAS: 67-63-0                 | COD 2,23 g O <sub>2</sub> /g  | Period 14 days         |
| EC: 200-661-7                | BOD5/COD 0,53                 | % Biodegradable 86 %   |
| Ethyl acetate                | BOD5 1,36 g O <sub>2</sub> /g | Concentration 100 mg/L |
| CAS: 141-78-6                | COD 1,69 g O <sub>2</sub> /g  | Period 14 days         |
| EC: 205-500-4                | BOD5/COD 0,8                  | % Biodegradable 83 %   |
| 2-methylisothiazol-3(2H)-one | BOD5 Non-applicable           | Concentration 10 mg/L  |
| CAS: 2682-20-4               | COD Non-applicable            | Period 28 days         |
| EC: 220-239-6                | BOD5/COD Non-applicable       | % Biodegradable 55,8 % |

**12.3 Bioaccumulative potential:**

| Identification               | Bioaccumulation potential |
|------------------------------|---------------------------|
| propan-2-ol                  | BCF 3                     |
| CAS: 67-63-0                 | Pow Log 0.05              |
| EC: 200-661-7                | Potential Low             |
| Ethyl acetate                | BCF 30                    |
| CAS: 141-78-6                | Pow Log 0.73              |
| EC: 205-500-4                | Potential Moderate        |
| 2-methylisothiazol-3(2H)-one | BCF                       |
| CAS: 2682-20-4               | Pow Log -0.49             |
| EC: 220-239-6                | Potential                 |

**12.4 Mobility in soil:**

| Identification | Absorption/desorption                | Volatility                            |
|----------------|--------------------------------------|---------------------------------------|
| propan-2-ol    | Koc 1.5                              | Henry 8,207E-1 Pa·m <sup>3</sup> /mol |
| CAS: 67-63-0   | Conclusion Very High                 | Dry soil Yes                          |
| EC: 200-661-7  | Surface tension 2,24E-2 N/m (25 °C)  | Moist soil Yes                        |
| Ethyl acetate  | Koc 59                               | Henry 13,58 Pa·m <sup>3</sup> /mol    |
| CAS: 141-78-6  | Conclusion Very High                 | Dry soil Yes                          |
| EC: 205-500-4  | Surface tension 2,324E-2 N/m (25 °C) | Moist soil Yes                        |

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**SECTION 12: ECOLOGICAL INFORMATION (continued)**

| Identification               | Absorption/desorption |                | Volatility |                             |
|------------------------------|-----------------------|----------------|------------|-----------------------------|
| 2-methylisothiazol-3(2H)-one | Koc                   | Non-applicable | Henry      | OE+0 Pa·m <sup>3</sup> /mol |
| CAS: 2682-20-4               | Conclusion            | Non-applicable | Dry soil   | Non-applicable              |
| EC: 220-239-6                | Surface tension       | Non-applicable | Moist soil | Non-applicable              |

**12.5 Results of PBT and vPvB assessment:**

Product fails to meet PBT/vPvB criteria

**12.6 Endocrine disrupting properties:**

Endocrine-disrupting properties: The product fails to meet the criteria.

**12.7 Other adverse effects:**

Not described

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods:**

| Code | Description   | Waste class (Regulation (EU) No 1357/2014) |
|------|---|--|
|      | It is not possible to assign a specific code, as it depends on the intended use by the user | Dangerous                                  |

**Type of waste (Regulation (EU) No 1357/2014):**

HP3 Flammable

**Waste management (disposal and evaluation):**

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

**Regulations related to waste management:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

**SECTION 14: TRANSPORT INFORMATION**

**Transport of dangerous goods by land:**

With regard to ADR 2021 and RID 2021:



- 14.1 UN number or ID number:** UN1993  
**14.2 UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (propan-2-ol)  
**14.3 Transport hazard class(es):** 3  
**Labels:** 3  
**14.4 Packing group:** III  
**14.5 Environmental hazards:** No  
**14.6 Special precautions for user**  
Special regulations: 274, 601  
Tunnel restriction code: D/E  
Physico-Chemical properties: see section 9  
Limited quantities: 5 L  
**14.7 Maritime transport in bulk according to IMO instruments:** Non-applicable

**Transport of dangerous goods by sea:**

With regard to IMDG 39-18:

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**SECTION 14: TRANSPORT INFORMATION (continued)**



- 14.1 UN number or ID number:** UN1993  
**14.2 UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (propan-2-ol)  
**14.3 Transport hazard class(es):** 3  
**Labels:** 3  
**14.4 Packing group:** III  
**14.5 Marine pollutant:** No  
**14.6 Special precautions for user**  
Special regulations: 274, 223, 955  
EmS Codes: F-E, S-E  
Physico-Chemical properties: see section 9  
Limited quantities: 5 L  
Segregation group: Non-applicable  
**14.7 Maritime transport in bulk according to IMO instruments:** Non-applicable

**Transport of dangerous goods by air:**

With regard to IATA/ICAO 2022:



- 14.1 UN number or ID number:** UN1993  
**14.2 UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (propan-2-ol)  
**14.3 Transport hazard class(es):** 3  
**Labels:** 3  
**14.4 Packing group:** III  
**14.5 Environmental hazards:** No  
**14.6 Special precautions for user**  
Physico-Chemical properties: see section 9  
**14.7 Maritime transport in bulk according to IMO instruments:** Non-applicable

**SECTION 15: REGULATORY INFORMATION**

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

Regulation (EC) No 528/2012: contains a preservative to protect the initial properties of the treated article. Contains 2-methylisothiazol-3(2H)-one, bronopol (INN), reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1).

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: propan-2-ol (Product-type 1, 2, 4) ; reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (Product-type 2, 4, 6, 11, 12, 13) ; 2-methylisothiazol-3(2H)-one (Product-type 6, 11, 12, 13) ; bronopol (INN) (Product-type 2, 6, 11, 12, 22)

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

**Regulation (EC) No 648/2004 on detergents:**

In accordance with this regulation the product complies with the following:

The tensoactives contained in this mixture comply with the biodegradability criteria stipulated in Regulation (EC) n°648/2004 on detergents. The information to prove this is available to the relevant authorities of the Member States and will be shown to them by direct request or the request of a detergent manufacturer.

**Labelling for contents:**

| Component           | Concentration interval |
|---------------------|------------------------|
| Anionic surfactants | % (w/w) < 5            |
| perfumes            |                        |

Preservation agents: 2-methylisothiazol-3(2H)-one (METHYLISOTHIAZOLINONE), bronopol (INN) (2-BROMO-2-NITROPROPANE-1,3-DIOL), reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (METHYLCHLOROISOTHIAZOLINONE / METHYLISOTHIAZOLINONE).

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**SECTION 15: REGULATORY INFORMATION (continued)**
**Seveso III:**

| Section | Description       | Lower-tier requirements | Upper-tier requirements |
|---------|-------------------|-------------------------|-------------------------|
| P5c     | FLAMMABLE LIQUIDS | 5000                    | 50000                   |

**Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....):**

Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- tricks and jokes,
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

**Specific provisions in terms of protecting people or the environment:**

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

**Other legislation:**

The product could be affected by sectorial legislation

- Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products
- Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents
- Commission Regulation (EC) No 907/2006 of 20 June 2006 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes III and VII
- Commission Regulation (EC) No 551/2009 of 25 June 2009 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes V and VI thereto (surfactant derogation)

**15.2 Chemical safety assessment:**

The supplier has not carried out evaluation of chemical safety.

**SECTION 16: OTHER INFORMATION**
**Legislation related to safety data sheets:**

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

**Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:**

Non-applicable

**Texts of the legislative phrases mentioned in section 2:**

H319: Causes serious eye irritation.

H226: Flammable liquid and vapour.

**Texts of the legislative phrases mentioned in section 3:**

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

**CLP Regulation (EC) No 1272/2008:**

Acute Tox. 2: H310+H330 - Fatal in contact with skin or if inhaled.

Acute Tox. 2: H330 - Fatal if inhaled.

Acute Tox. 3: H301 - Toxic if swallowed.

Acute Tox. 3: H301+H311 - Toxic if swallowed or in contact with skin.

Aquatic Acute 1: H400 - Very toxic to aquatic life.

Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.

Eye Dam. 1: H318 - Causes serious eye damage.

Eye Irrit. 2: H319 - Causes serious eye irritation.

Flam. Liq. 2: H225 - Highly flammable liquid and vapour.

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.

Skin Corr. 1C: H314 - Causes severe skin burns and eye damage.

Skin Sens. 1A: H317 - May cause an allergic skin reaction.

STOT SE 3: H336 - May cause drowsiness or dizziness.

**Classification procedure:**

Eye Irrit. 2: Calculation method

Flam. Liq. 3: Calculation method (2.6.4.3)

**Advice related to training:**

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**Clear Vision****SECTION 16: OTHER INFORMATION (continued)**

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

**Principal bibliographical sources:**

<http://echa.europa.eu>  
<http://eur-lex.europa.eu>

**Abbreviations and acronyms:**

ADR: European agreement concerning the international carriage of dangerous goods by road  
IMDG: International maritime dangerous goods code  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organisation  
COD: Chemical Oxygen Demand  
BOD5: 5day biochemical oxygen demand  
BCF: Bioconcentration factor  
LD50: Lethal Dose 50  
LC50: Lethal Concentration 50  
EC50: Effective concentration 50  
LogPOW: Octanolwater partition coefficient  
Koc: Partition coefficient of organic carbon  
UFI: unique formula identifier  
IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -