

# SAFETY DATA SHEET

according to Regulation No. 1907/2006 of the European Parliament and of the Council, as subsequently amended

## KRYSTAL Gel for rim holders, green

Date of revision: **27. 03. 2025** Version: **5.0**  
Replaced version from: **05. 10. 2022**  
Date of issue: **02. 01. 2012**

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

#### 1.1. Product identifier

##### Product Name

**KRYSTAL Gel for rim holders, green**

##### UFI code

UFI: S701-J0X0-C00S-UWTF

##### Product code

None

##### Mixture description

Water solution.

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

##### Identified uses

Gel agent for filling hanging baskets. It pleasantly perfumes the toilet space and removes limescale.  
Consumer use.

##### Uses advised against

Not known. It is recommended to use it only for the intended use. Other uses may expose users to unpredictable risks.

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

##### CORMEN s.r.o.

Věchnov 73

593 01

Czech Republic

telephone: +420 566 550 961

Fax: +420 566 551 822

e-mail address for a competent person responsible for the SDS: [info@cormen.cz](mailto:info@cormen.cz)

#### 1.4. Emergency telephone number

112 (General emergency phone).

### SECTION 2: Hazards identification

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

The mixture is classified as hazardous according to regulation 1272/2008/EC.

##### Classification according to 1272/2008/EC

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### Eye Dam. 1; H318

Full text of classifications and H-phrases: see section 16.

### ***The most important adverse physical, human health and environmental effects***

Causes serious eye damage.

### 2.2. Label elements

#### Hazard pictograms



#### Signal word

Danger.

#### ***Substances of the mixture to be placed on the label***

Contains Alcohols, C12-15, branched and linear, ethoxylated (> 2.5 EO), 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., inner salts.

#### Hazard statements

H318 Causes serious eye damage.

#### Precautionary statements

P102 Keep out of reach of children.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P501 Dispose of contents/container by handing it over to a collection yard or sorted waste.

#### ***Supplemental hazard information***

EUH208 - Contains Fir, Abies sibirica, ext., Coumarin, 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.

Composition according to regulation 648/2004/EC on detergents: 5 - < 15% non-ionic surfactants, < 5% perfumes, COUMARIN, LIMONENE, preservation agents (BENZYL ALCOHOL, METHYLCHLOROISOTHIAZOLINONE AND METHYLISOTHIAZOLINONE).

### 2.3. Other hazards

Mixture does not contain substance(s) meeting the criteria for persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) in accordance with Annex XIII of REACH regulation. The mixture and its substances are not mentioned on the Candidate list for possible inclusion in Annex XIV of REACH at the date of the revision of the safety data sheet (established in accordance with Article 59(1) of REACH regulation. Mixture does not contain the substance(s) 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

### 3.2. Mixtures

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### 3.2.1. Substances of a mixture classified as hazardous

| Identification of substance                                                                          | Content wt. %                        | Classification according to 1272/2008/EC |
|------------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------|
| <b>Propan-2-ol; Isopropyl alcohol; Isopropanol</b>                                                   |                                      |                                          |
| CAS Number                                                                                           | 67-63-0                              |                                          |
| EC Number                                                                                            | 200-661-7                            | Flam. Liq. 2; H225                       |
| Index Number                                                                                         | 603-117-00-0                         | Eye Irrit. 2; H319                       |
| Registration Number                                                                                  | 01-2119457558-25-XXXX                | STOT SE 3; H336                          |
| <b>Alcohols, C12-15-branched and linear, ethoxylated (&gt;2.5 moles EO)</b>                          |                                      |                                          |
| CAS Number                                                                                           | 106232-83-1                          | Acute Tox. 4; H302                       |
| EC Number                                                                                            | 932-186-2                            | Eye Dam. 1; H318                         |
| Index Number                                                                                         | not given                            | 1 - < 10 Aquatic Chronic 3; H412         |
| Registration Number                                                                                  | polymer, not subject to registration | ATE <sub>oral</sub> = 500 mg/kg bw       |
| <b>1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., inner salts</b>   |                                      |                                          |
| CAS Number                                                                                           | 97862-59-4                           |                                          |
| EC Number                                                                                            | 931-296-8                            | Eye Dam. 1; H318                         |
| Index Number                                                                                         | not given                            | 1 - < 10 Aquatic Chronic 3; H412         |
| Registration Number                                                                                  | 01-2119488533-30-XXXX                |                                          |
| The substance has specific concentration limits:                                                     |                                      |                                          |
| Eye Dam. 1; H318                                                                                     | C > 10 %                             |                                          |
| Eye Irrit. 2; H319                                                                                   | 4 % < C ≤ 10 %                       |                                          |
| <b>Fir, Abies sibirica, ext.</b>                                                                     |                                      |                                          |
| CAS Number                                                                                           | 91697-89-1                           | Flam. Liq. 3; H226                       |
| EC Number                                                                                            | 294-351-9                            | Asp. Tox. 1; H304                        |
| Index Number                                                                                         | not given                            | 1 Skin Irrit. 2; H315                    |
| Registration Number                                                                                  | 01-2120738835-44-XXXX                | Skin Sens. 1; H317                       |
|                                                                                                      |                                      | Eye Irrit. 2; H319                       |
|                                                                                                      |                                      | Aquatic Chronic 2; H411                  |
| <b>Coumarin; 1,2-Benzopyran-2-one</b>                                                                |                                      |                                          |
| CAS Number                                                                                           | 91-64-5                              | Acute Tox. 4; H302                       |
| EC Number                                                                                            | 202-086-7                            | 1 Skin Sens. 1; H317                     |
| Index Number                                                                                         | neuvedeno                            | < 0.5 Aquatic Chronic 3; H412            |
| Registration Number                                                                                  | 01-2119949300-45-XXXX                | ATE <sub>oral</sub> = 500 mg/kg bw       |
| <b>Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)</b> |                                      |                                          |

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|---------------------|-----------------------|---------|-------------------------------------------------|
| CAS Number          | 55965-84-9            |         | Acute Tox. 3; H301                              |
| EC Number           | 911-418-6             |         | Acute Tox. 2; H310                              |
| Index Number        | 613-167-00-5          | < 0.001 | Skin Corr. 1C; H314                             |
| Registration Number | 01-2120764691-48-XXXX |         | Eye Dam. 1; H318                                |
|                     |                       |         | Skin Sens. 1A; H317                             |
|                     |                       |         | Acute Tox. 2; H330                              |
|                     |                       |         | Aquatic Acute 1; H400                           |
|                     |                       |         | Aquatic Chronic 1; H410                         |
|                     |                       |         | EUH071                                          |
|                     |                       |         | M=100                                           |
|                     |                       |         | M(Chronic)=100                                  |
|                     |                       |         | ATE <sub>oral</sub> = 66 mg/kg bw               |
|                     |                       |         | ATE <sub>dermal</sub> = 87 mg/kg bw             |
|                     |                       |         | ATE <sub>inhalation</sub> = 0.17 mg/L (aerosol) |

The substance has specific concentration limits:

|                     |                    |
|---------------------|--------------------|
| Skin Corr. 1C; H314 | C ≥ 0.6 %          |
| Eye Dam. 1; H318    | C ≥ 0.6 %          |
| Skin Irrit. 2; H315 | 0.06 % ≤ C < 0.6 % |
| Eye Irrit. 2; H319  | 0.06 % ≤ C < 0.6 % |
| Skin Sens. 1A; H317 | C ≥ 0.0015 %       |

### Ethanediol; Ethylene glycol

|                     |                       |         |                                    |
|---------------------|-----------------------|---------|------------------------------------|
| CAS Number          | 107-21-1              |         | Acute Tox. 4; H302                 |
| EC Number           | 203-473-3             |         | STOT RE 2; H373                    |
| Index Number        | 603-027-00-1          | < 0.001 | (kidney) (oral)                    |
| Registration Number | 01-2119456816-28-XXXX |         | ATE <sub>oral</sub> = 500 mg/kg bw |

Full text of classifications and H-phrases: see section 16.

## SECTION 4: First aid measures

In all cases keep the victim at physical and mental rest and warm. In case of doubt or if symptoms persist, seek medical attention. Never give anything by mouth if victim is rapidly losing consciousness, unconscious or convulsing. Protect yourself during rescue work.

### 4.1. Description of first aid measures

#### Inhalation

Interrupt the exposure, move the person to the fresh air. In case of persistent nausea, seek medical advice.

#### Skin contact

Remove contaminated clothing, shoes, and wash affected skin thoroughly with water (preferably lukewarm) and soap. Do not use solvents or thinners. If the problem persists, seek medical advice.

#### Eye contact

Rinse with a gentle stream of water for at least 15 minutes. Keep your eyelids wide open with your thumb and forefinger. If the affected person is wearing contact lenses, remove them before rinsing eyes if it is easy. Seek medical advice.

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### ***Ingestion***

Rinse your mouth and then drink plenty of water. Do not induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Seek medical advice.

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

Are not known.

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

Treat symptomatically and supportively.

## SECTION 5: Firefighting measures

### ***5.1. Extinguishing media***

#### ***Suitable extinguishing media***

##### **Small fire:**

Carbon dioxide CO<sub>2</sub>, dry extinguishing agent, sand or earth, alcohol-resistant foam.

##### **Extensive fire:**

Fragmented water streams (water mist), alcohol-resistant foam.

#### ***Unsuitable extinguishing media***

Solid streams of water may be ineffective.

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

In case of fire extinguishing prevent leakage of water and rest of product into drains. Collect them separately and dispose of safely in accordance with current legislation and applicable local regulations.

In case of fires, hazardous combustion gases are formed: carbon oxides, sulphur oxides, hydrogen sulphide, nitrogen oxides, ammonia, chlorine oxides, hydrogen chloride, chlorine and products of incomplete combustion.

### ***5.3. Advice for firefighters***

Stop further leakage of product if possible. Spilled product, which does not burn, cover with sand or foam. Move containers and barrels away from the fire to a safe place, if possible. Cool all affected containers down with flooding quantities of water. If the fire can't be extinguished - evacuate the premises.

In case of fire, wear suitable respiratory protective equipment and fire-fighting suit.

## SECTION 6: Accidental release measures

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

Avoid contact with skin and eyes, use suitable protective equipment and clothing, see Section 8. Ensure adequate ventilation. At the point of leakage, prevent the movement of unauthorized persons.

### ***6.2. Environmental precautions***

Prevent further leakage or spillage if safe to do so. If this cannot be avoided, inform the competent authorities (police and firefighters) immediately.

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

According to the amount of spilled liquid, drain away the substance (large spillage) or in case of small spillage, absorb it with suitable absorbent (vermiculite, dry sand), put into labelled closed containers and dispose of them accordingly to Section 13. Flush residues with water and collect it for waste disposal. Do not use solvents or dispersants unless instructed by an expert or government authority.

If container is damaged, remove the content to the new undamaged container and label it properly again.

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### 6.4. Reference to other sections

Refer also to the provisions of sections 7, 8 and 13 of this safety data sheet.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid contact with skin and eyes. Personal protection see Section 8. Ensure good ventilation.

Smoking, eating and drinking should be prohibited at the place of use. Keep safety regulations for handling chemicals. Take off contaminated clothing and protective equipment before entering the dining area. Do not use dirty clothing. After work wash yourself carefully with warm water and soap, take a shower. Use protective cream.

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

Store in original, tightly closed containers, in a dry, cool and well-ventilated place at room temperature.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

Do not store together with incompatible materials (see subsection 10.5), food, drink and feed.

### 7.3. Specific end use(s)

See subsection 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. Exposure limit value

| Ethanol                                            | CAS: 107-21-1 |                                                    |        |              |
|----------------------------------------------------|---------------|----------------------------------------------------|--------|--------------|
| Limit values - Eight hours<br>52 mg/m <sup>3</sup> | 20 ppm        | Limit values - Short-term<br>104 mg/m <sup>3</sup> | 40 ppm | Note<br>Skin |

#### 8.1.2. Biological limit values

Not determined in EU.

#### 8.1.3. DNEL and PNEC values

| Propan-2-ol | CAS: 67-63-0 |  |  |  |
|-------------|--------------|--|--|--|
|-------------|--------------|--|--|--|

#### DNEL

| Area of use        | Route of exposure | Effect          | Exposure time    | Value                   |
|--------------------|-------------------|-----------------|------------------|-------------------------|
| Workers            | Inhalation        | Systemic effect | Long term        | 500 mg/m <sup>3</sup>   |
| Workers            | Inhalation        | Systemic effect | Acute/Short term | 1 000 mg/m <sup>3</sup> |
| Workers            | Dermal            | Systemic effect | Long term        | 888 mg/kg/day           |
| General population | Inhalation        | Systemic effect | Long term        | 89 mg/m <sup>3</sup>    |
| General population | Inhalation        | Systemic effect | Acute/Short term | 178 mg/m <sup>3</sup>   |
| General population | Dermal            | Systemic effect | Long term        | 319 mg/kg/day           |
| General population | Oral              | Systemic effect | Long term        | 26 mg/kg/day            |
| General population | Oral              | Systemic effect | Acute/Short term | 51 mg/kg/day            |

PNEC - not available

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|----------------------------------------------------------------------------------------------------|-------------------------|-----------------|-----------------|-------------------------|
| <b>1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., inner salts</b> |                         |                 | CAS: 97862-59-4 |                         |
| <b>DNEL</b>                                                                                        |                         |                 |                 |                         |
| Area of use                                                                                        | Route of exposure       | Effect          | Exposure time   | Value                   |
| Workers                                                                                            | Inhalation              | Systemic effect | Long term       | 44 mg/m <sup>3</sup>    |
| Workers                                                                                            | Dermal                  | Systemic effect | Long term       | 12.5 mg/kg/day          |
| General population                                                                                 | Inhalation              | Systemic effect | Long term       | 13.04 mg/m <sup>3</sup> |
| General population                                                                                 | Dermal                  | Systemic effect | Long term       | 7.5 mg/kg/day           |
| General population                                                                                 | Oral                    | Systemic effect | Long term       | 7.5 mg/kg/day           |
| <b>PNEC</b>                                                                                        |                         |                 |                 |                         |
| Fresh water                                                                                        |                         | Marine water    |                 | Intermittent releases   |
| 0.013 mg/l                                                                                         |                         | Fresh water     |                 | Marine water            |
| 0.001 mg/l                                                                                         |                         | not given       |                 | not given               |
| Sewage Treatment Plant (STP)                                                                       |                         |                 |                 |                         |
| 3 000 mg/l                                                                                         |                         |                 |                 |                         |
| <b>PNEC</b>                                                                                        |                         |                 |                 |                         |
| Sediment (freshwater)                                                                              | Sediment (marine water) | Air             | Soil            | Hazard for predators    |
| 11.1 mg/kg                                                                                         | 1.11 mg/kg              | no effect       | 0.85 mg/kg      | no effect               |
| <b>Fir, Abies sibirica, ext.</b>                                                                   |                         |                 |                 | CAS: 91697-89-1         |
| <b>DNEL - not available</b>                                                                        |                         |                 |                 |                         |
| <b>PNEC - not available</b>                                                                        |                         |                 |                 |                         |
| <b>Coumarin</b>                                                                                    |                         |                 |                 | CAS: 91-64-5            |
| <b>DNEL</b>                                                                                        |                         |                 |                 |                         |
| Area of use                                                                                        | Route of exposure       | Effect          | Exposure time   | Value                   |
| Workers                                                                                            | Inhalation              | Systemic effect | Long term       | 6.78 mg/m <sup>3</sup>  |
| Workers                                                                                            | Dermal                  | Systemic effect | Long term       | 0.79 mg/kg/day          |
| General population                                                                                 | Inhalation              | Systemic effect | Long term       | 1.69 mg/m <sup>3</sup>  |
| General population                                                                                 | Dermal                  | Systemic effect | Long term       | 0.39 mg/kg/day          |
| General population                                                                                 | Oral                    | Systemic effect | Long term       | 0.39 mg/kg/day          |
| <b>PNEC</b>                                                                                        |                         |                 |                 |                         |
| Fresh water                                                                                        |                         | Marine water    |                 | Intermittent releases   |
| 19 µg/l                                                                                            |                         | Fresh water     |                 | Marine water            |
| 1.9 µg/l                                                                                           |                         | 14.2 µg/l       |                 | not given               |
| Sewage Treatment Plant (STP)                                                                       |                         |                 |                 |                         |
| 6.4 mg/l                                                                                           |                         |                 |                 |                         |
| <b>PNEC</b>                                                                                        |                         |                 |                 |                         |
| Sediment (freshwater)                                                                              | Sediment (marine water) | Air             | Soil            | Hazard for predators    |
| 0.15 mg/kg                                                                                         | 0.015 mg/kg             | no effect       | 0.018 mg/kg     | 30.7 mg/kg food         |
| <b>Ethanediol</b>                                                                                  |                         |                 |                 | CAS: 107-21-1           |
| <b>DNEL</b>                                                                                        |                         |                 |                 |                         |

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|--------------------|-------------------|-----------------|---------------|----------------------|
| Workers            | Inhalation        | Local effect    | Long term     | 35 mg/m <sup>3</sup> |
| Workers            | Dermal            | Systemic effect | Long term     | 106 mg/kg/day        |
| General population | Inhalation        | Local effect    | Long term     | 7 mg/m <sup>3</sup>  |
| General population | Dermal            | Systemic effect | Long term     | 53 mg/kg/day         |

**PNEC** - not yet available

**Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)** CAS: 55965-84-9

### DNEL

| Area of use        | Route of exposure | Effect          | Exposure time | Value                  |
|--------------------|-------------------|-----------------|---------------|------------------------|
| Workers            | Inhalation        | Systemic effect | Long term     | 0.02 mg/m <sup>3</sup> |
| Workers            | Inhalation        | Local effect    | Long term     | 0.04 mg/m <sup>3</sup> |
| General population | Inhalation        | Systemic effect | Long term     | 0.02 mg/m <sup>3</sup> |
| General population | Inhalation        | Local effect    | Long term     | 0.04 mg/m <sup>3</sup> |
| General population | Oral              | Systemic effect | Long term     | 0.09 mg/kg/day         |
| General population | Oral              | Local effect    | Long term     | 0.11 mg/kg/day         |

### PNEC

| Fresh water | Marine water | Intermittent releases |              | Sewage Treatment Plant (STP) |
|-------------|--------------|-----------------------|--------------|------------------------------|
|             |              | Fresh water           | Marine water |                              |
| 3.39 µg/l   | 3.39 µg/l    | 3.39 µg/l             | 3.39 µg/l    | 0.23 mg/l                    |

### PNEC

| Sediment (freshwater) | Sediment (marine water) | Air       | Soil       | Hazard for predators |
|-----------------------|-------------------------|-----------|------------|----------------------|
| 0.027 mg/kg           | 0.027 mg/kg             | no effect | 0.01 mg/kg | no effect            |

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

Use only in well-ventilated areas.

Observe usual safety precautions for working with chemicals. The degree of effectiveness of personal protective equipment depends on temperature and ventilation levels.

### 8.2.2. Individual protection measures, such as personal protective equipment

Do not eat, drink or smoke. After work, wash thoroughly with warm water and soap and take a shower. Use protective cream. Do not soiled protective equipment to wash, do not use solvents.

#### Eye/face protection

Wear safety goggles or face shield when manufacturing and handling the product (EN 166, EN 149+A1). It is not necessary for normal use, in case of possible contact with the eyes, use protective glasses or a face shield.

#### Skin protection - hand protection

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Wear protective gloves when manufacturing and handling the product (EN 374-1, EN 374-2). In normal use it is not necessary to use protective gloves. Wear protective gloves in case of prolonged skin contact.

The selection of the glove material on consideration of the breakthrough time, permeability, degradation and next relevant factors; other chemicals that may come into contact, physical requirements (cut and puncture protection, dexterity, thermal protection), possible body reactions to the glove material and the glove supplier's instructions and specifications. In case of repeated use of gloves, clean and keep them in a well-ventilated place before taking off.

### **Skin protection - other**

In normal use is not necessary, in case of prolonged contact with the product, wear protective work clothes and shoes.

### **Respiratory protection**

Not necessary in case of compliance concentration limits (if they were exceeded, use respiratory protection). In the event of an accident or a fire use self-contained breathing apparatus.

### **Thermal hazards**

In normal use is not necessary protective equipment to be worn for materials that represent a thermal hazard.

### **8.2.3. Environmental exposure controls**

Uncontrolled release of the mixture into environment is to be avoided. Keep the emission limits according to national legislation.

## SECTION 9: Physical and chemical properties

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

#### **Mixture**

|                                                                 |                                                                                                  |
|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| <b>Physical state</b>                                           | Liquid.                                                                                          |
| <b>Colour</b>                                                   | Green.                                                                                           |
| <b>Odour</b>                                                    | Characteristic.                                                                                  |
| <b>Melting point/freezing point</b>                             | Not determined.                                                                                  |
| <b>Boiling point or initial boiling point and boiling range</b> | 82 °C.                                                                                           |
| <b>Flammability</b>                                             | The mixture is classified as flammable liquid according to the value of the flash point.         |
| <b>Lower explosion limit</b>                                    | Not determined for the mixture, values are given for substances classified as flammable liquids. |
| <b>Upper explosion limit</b>                                    | Not determined for the mixture, values are given for substances classified as flammable liquids. |
| <b>Flash point</b>                                              | > 36 - < 60 ° C (according to the determination of the flash point of a similar mixture).        |
| <b>Auto-ignition temperature</b>                                | Not determined.                                                                                  |
| <b>Decomposition temperature</b>                                | Not determined, the mixture does not contain self-reactive substances or organic peroxides.      |
| <b>pH</b>                                                       | 5.0-6.0.                                                                                         |

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| <b>Kinematic viscosity</b>                                                                         | Not determined, the mixture does not contain a substance classified as aspiration toxic, or the sum of the concentrations of substances classified as aspiration toxic is less than 10 wt. %. |
| <b>Solubility</b>                                                                                  | Complete solubility.                                                                                                                                                                          |
| <b>Partition coefficient n-octanol/water (log value)</b>                                           | Does not apply to mixture.                                                                                                                                                                    |
| <b>Vapour pressure</b>                                                                             | 43 hPa.                                                                                                                                                                                       |
| <b>Density and/or relative density</b>                                                             | Not determined.                                                                                                                                                                               |
| <b>Relative vapour density</b>                                                                     | Not determined.                                                                                                                                                                               |
| <b>Particle characteristics</b>                                                                    | Does not apply to liquid.                                                                                                                                                                     |
| <b>Propan-2-ol</b>                                                                                 | CAS: 67-63-0                                                                                                                                                                                  |
| <b>Physical state</b>                                                                              | Liquid.                                                                                                                                                                                       |
| <b>Colour</b>                                                                                      | Colopurless.                                                                                                                                                                                  |
| <b>Odour</b>                                                                                       | Not determined.                                                                                                                                                                               |
| <b>Melting point/freezing point</b>                                                                | -88.5 °C (literature).                                                                                                                                                                        |
| <b>Boiling point or initial boiling point and boiling range</b>                                    | 82.3 °C (literature).                                                                                                                                                                         |
| <b>Flammability</b>                                                                                | Highly flammable liquid.                                                                                                                                                                      |
| <b>Lower explosion limit</b>                                                                       | 2 vol. % (literature).                                                                                                                                                                        |
| <b>Upper explosion limit</b>                                                                       | 13 vol. % (literature).                                                                                                                                                                       |
| <b>Flash point</b>                                                                                 | 11.7 °C (literature).                                                                                                                                                                         |
| <b>Auto-ignition temperature</b>                                                                   | 399 - 455.6 °C (literature).                                                                                                                                                                  |
| <b>Decomposition temperature</b>                                                                   | Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.                                                                                 |
| <b>pH</b>                                                                                          | Not determined.                                                                                                                                                                               |
| <b>Kinematic viscosity</b>                                                                         | Not determined, it is not a hydrocarbon or a chlorinated hydrocarbon.                                                                                                                         |
| <b>Solubility</b>                                                                                  | Miscible with water.                                                                                                                                                                          |
| <b>Partition coefficient n-octanol/water (log value)</b>                                           | log Pow = 0.05 (25 °C, literature).                                                                                                                                                           |
| <b>Vapour pressure</b>                                                                             | Not determined.                                                                                                                                                                               |
| <b>Density and/or relative density</b>                                                             | 785.5 kg/m <sup>3</sup> (20 °C, literature).                                                                                                                                                  |
| <b>Relative vapour density</b>                                                                     | Not determined.                                                                                                                                                                               |
| <b>Particle characteristics</b>                                                                    | Does not apply to liquid.                                                                                                                                                                     |
| <b>1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., inner salts</b> | CAS: 97862-59-4                                                                                                                                                                               |
| <b>Physical state</b>                                                                              | Solid.                                                                                                                                                                                        |
| <b>Colour</b>                                                                                      | Not determined.                                                                                                                                                                               |
| <b>Odour</b>                                                                                       | Not determined.                                                                                                                                                                               |
| <b>Melting point/freezing point</b>                                                                | Not determined, substance decomposes.                                                                                                                                                         |

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|                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Boiling point or initial boiling point and boiling range</b> | Not determined, substance decomposes.                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Flammability</b>                                             | The substance is not classified as flammable (EU method A.10).                                                                                                                                                                                                                                                                                                                                                            |
| <b>Lower explosion limit</b>                                    | Does not apply to solid.                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Upper explosion limit</b>                                    | Does not apply to solid.                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Flash point</b>                                              | Does not apply to solid.                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Auto-ignition temperature</b>                                | Does not apply to solid.                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Decomposition temperature</b>                                | 208 - 280 °C (OECD 102).                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>pH</b>                                                       | Not determined.                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Kinematic viscosity</b>                                      | Does not apply to solid.                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Solubility</b>                                               | ≤ 400 mg/l (20 °C, literature)                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Partition coefficient n-octanol/water (log value)</b>        | log Pow = 1.79 (pH = 3 - 8, 20 °C, C8 derivates, (Q)SAR method).<br>log Pow = 2.81 (pH = 3 - 8, 20 °C, C10 derivates, (Q)SAR method).<br>log Pow = 3.54 (pH = 3 - 8, 20 °C, C12 derivates, (Q)SAR method).<br>log Pow = 5.13 (pH = 3 - 8, 20 °C, C14 derivates, (Q)SAR method).<br>log Pow = 6.15 (pH = 3 - 8, 20 °C, C16 derivates, (Q)SAR method).<br>log Pow = 7.17 (pH = 3 - 8, 20 °C, C18 derivates, (Q)SAR method). |
| <b>Vapour pressure</b>                                          | Not determined.                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Density and/or relative density</b>                          | 1.15 g/cm³ (20 °C, ISO 1183-1).                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Relative vapour density</b>                                  | Does not apply to solid.                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Particle characteristics</b>                                 | Not determined.                                                                                                                                                                                                                                                                                                                                                                                                           |

Fir, Abies sibirica, ext. CAS: 91697-89-1

|                                                                 |                          |
|-----------------------------------------------------------------|--------------------------|
| <b>Physical state</b>                                           | Liquid.                  |
| <b>Colour</b>                                                   | Colourless to yellowish. |
| <b>Odour</b>                                                    | Not determined.          |
| <b>Melting point/freezing point</b>                             | < -20 °C (literature).   |
| <b>Boiling point or initial boiling point and boiling range</b> | 177.5 °C (literature).   |
| <b>Flammability</b>                                             | Flammable liquid.        |
| <b>Lower explosion limit</b>                                    | Not determined.          |
| <b>Upper explosion limit</b>                                    | Not determined.          |
| <b>Flash point</b>                                              | 40.5 °C (EU method A.9). |
| <b>Auto-ignition temperature</b>                                | 255 °C (EU method A.15). |

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|                                                                 |                                                                                                               |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| <b>Decomposition temperature</b>                                | Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose. |
| <b>pH</b>                                                       | Not determined.                                                                                               |
| <b>Kinematic viscosity</b>                                      | Not determined.                                                                                               |
| <b>Solubility</b>                                               | 1.81 mg/l (24.4 °C, pH = 7.6, OECD 105).                                                                      |
| <b>Partition coefficient n-octanol/water (log value)</b>        | log Pow = 4.78 ((Q)SAR method).                                                                               |
| <b>Vapour pressure</b>                                          | Not determined.                                                                                               |
| <b>Density and/or relative density</b>                          | $D_4^{20} = 0.904$ (OECD 109).                                                                                |
| <b>Relative vapour density</b>                                  | Not determined.                                                                                               |
| <b>Particle characteristics</b>                                 | Does not apply to liquid.                                                                                     |
| <b>Coumarin</b>                                                 | CAS: 91-64-5                                                                                                  |
| <b>Physical state</b>                                           | Solid.                                                                                                        |
| <b>Colour</b>                                                   | White.                                                                                                        |
| <b>Odour</b>                                                    | Pleasant, fragrant odor resembling that of vanilla beans.                                                     |
| <b>Melting point/freezing point</b>                             | 71 °C (OECD 102).                                                                                             |
| <b>Boiling point or initial boiling point and boiling range</b> | 301.71 °C (EPA OPPTS 830.7220).                                                                               |
| <b>Flammability</b>                                             | The substance is not classified as flammable (UN,ST/SG/AC.10/11/Rev.5).                                       |
| <b>Lower explosion limit</b>                                    | Does not apply to solid.                                                                                      |
| <b>Upper explosion limit</b>                                    | Does not apply to solid.                                                                                      |
| <b>Flash point</b>                                              | Does not apply to solid.                                                                                      |
| <b>Auto-ignition temperature</b>                                | Does not apply to solid.                                                                                      |
| <b>Decomposition temperature</b>                                | Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose. |
| <b>pH</b>                                                       | Not determined.                                                                                               |
| <b>Kinematic viscosity</b>                                      | Does not apply to solid.                                                                                      |
| <b>Solubility</b>                                               | ca. 1 900 mg/l (20 °C, pH = ca. 7, EPA OPPTS 830.7840).                                                       |
| <b>Partition coefficient n-octanol/water (log value)</b>        | log Pow = 1.39 (25 °C, pH = 7, (Q)SAR method).                                                                |
| <b>Vapour pressure</b>                                          | Not determined.                                                                                               |
| <b>Density and/or relative density</b>                          | $D_4^{20} = \text{ca. } 0.935$ (EPA OPPTS 830.7300).                                                          |
| <b>Relative vapour density</b>                                  | Does not apply to solid.                                                                                      |

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|                                                                                                      |                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Particle characteristics</b>                                                                      | > 2 mm (ca. 4.34 %, ISO 2926:2005).<br>≥ 1.7 - < 2 mm (ca. 2.38 %, ISO 2926:2005).<br>≥ 1.18 - < 1.7 mm (ca. 35.08 %, ISO 2926:2005).<br>≥ 0.85 - < 1.18 mm (ca. 19.64 %, ISO 2926:2005).<br>≥ 425 - < 850 µm (ca. 25.76 %, ISO 2926:2005).<br>≥ 250 - < 425 µm (ca. 6.92 %, ISO 2926:2005).<br>< 250 µm (ca. 5.68 %, ISO 2926:2005). |
| <b>Ethanediol</b>                                                                                    | CAS: 107-21-1                                                                                                                                                                                                                                                                                                                         |
| <b>Physical state</b>                                                                                | Liquid.                                                                                                                                                                                                                                                                                                                               |
| <b>Colour</b>                                                                                        | Colourless.                                                                                                                                                                                                                                                                                                                           |
| <b>Odour</b>                                                                                         | Odourless.                                                                                                                                                                                                                                                                                                                            |
| <b>Melting point/freezing point</b>                                                                  | -12.69 °C (literature).                                                                                                                                                                                                                                                                                                               |
| <b>Boiling point or initial boiling point and boiling range</b>                                      | 197.4 °C (literature).                                                                                                                                                                                                                                                                                                                |
| <b>Flammability</b>                                                                                  | The substance is not classified as flammable, pyrophoric or emit flammable gases under standard conditions.                                                                                                                                                                                                                           |
| <b>Lower explosion limit</b>                                                                         | Not determined.                                                                                                                                                                                                                                                                                                                       |
| <b>Upper explosion limit</b>                                                                         | Not determined.                                                                                                                                                                                                                                                                                                                       |
| <b>Flash point</b>                                                                                   | 115 °C (literature).                                                                                                                                                                                                                                                                                                                  |
| <b>Auto-ignition temperature</b>                                                                     | 412 °C (literature).                                                                                                                                                                                                                                                                                                                  |
| <b>Decomposition temperature</b>                                                                     | Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.                                                                                                                                                                                                                         |
| <b>pH</b>                                                                                            | Not determined.                                                                                                                                                                                                                                                                                                                       |
| <b>Kinematic viscosity</b>                                                                           | Not determined, it is not a hydrocarbon or a chlorinated hydrocarbon.                                                                                                                                                                                                                                                                 |
| <b>Solubility</b>                                                                                    | Miscible.                                                                                                                                                                                                                                                                                                                             |
| <b>Partition coefficient n-octanol/water (log value)</b>                                             | log Pow = -1.36 (literature).                                                                                                                                                                                                                                                                                                         |
| <b>Vapour pressure</b>                                                                               | 100 Pa (51.1 °C, literature).<br>1 kPa (86.1 °C, literature).<br>10 kPa (132.5 °C, literature).<br>100 kPa (196.9 °C, literature).                                                                                                                                                                                                    |
| <b>Density and/or relative density</b>                                                               | 1.11 g/cm³ (DIN 51557).                                                                                                                                                                                                                                                                                                               |
| <b>Relative vapour density</b>                                                                       | Not determined.                                                                                                                                                                                                                                                                                                                       |
| <b>Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)</b> | CAS: 55965-84-9                                                                                                                                                                                                                                                                                                                       |
| <b>Physical state</b>                                                                                | Liquid.                                                                                                                                                                                                                                                                                                                               |
| <b>Colour</b>                                                                                        | Light yellow.                                                                                                                                                                                                                                                                                                                         |
| <b>Odour</b>                                                                                         | Not determined.                                                                                                                                                                                                                                                                                                                       |
| <b>Melting point/freezing point</b>                                                                  | < -25 °C (OECD 102).                                                                                                                                                                                                                                                                                                                  |

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|                                                                 |                                                                                                                                               |
|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Boiling point or initial boiling point and boiling range</b> | 100.1 °C (OECD 103).                                                                                                                          |
| <b>Flammability</b>                                             | The substance is not classified as flammable, pyrophoric or emit flammable gases under standard conditions.                                   |
| <b>Lower explosion limit</b>                                    | Not determined.                                                                                                                               |
| <b>Upper explosion limit</b>                                    | Not determined.                                                                                                                               |
| <b>Flash point</b>                                              | > 110 °C (EU method A.9).                                                                                                                     |
| <b>Auto-ignition temperature</b>                                | Not determined.                                                                                                                               |
| <b>Decomposition temperature</b>                                | Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.                                 |
| <b>pH</b>                                                       | 3.43 (20 °C, 10 g/l, CIPAC MT 75).                                                                                                            |
| <b>Kinematic viscosity</b>                                      | Not determined, it is not a hydrocarbon or a chlorinated hydrocarbon.                                                                         |
| <b>Solubility</b>                                               | > 1 000 g/l (20 °C, pH = 5 - 9, OECD 105).                                                                                                    |
| <b>Partition coefficient n-octanol/water (log value)</b>        | log Pow = 0.326 (2-methyl-2H-isothiazol-3-one, 24 °C, OECD 107).<br>log Pow = 2.519 (5-chloro-2-methyl-2H-isothiazol-3-one, 24 °C, OECD 107). |
| <b>Vapour pressure</b>                                          | 0.003 Pa (25 °C, OECD 104).                                                                                                                   |
| <b>Density and/or relative density</b>                          | D <sub>4</sub> <sup>20</sup> = 1.294 (OECD 109).                                                                                              |
| <b>Relative vapour density</b>                                  | Not determined.                                                                                                                               |
| <b>Particle characteristics</b>                                 | Does not apply to liquid.                                                                                                                     |

## 9.2. Other information

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

#### Mixture

##### Explosives

Data for the mixture are not available.

The mixture does not contain substances classified as explosives or oxidising, or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

##### Flammable gases

It is not gas.

##### Aerosols

It is not aerosol.

##### Oxidising gases

It is not gas.

##### Gases under pressure

It is not gas.

##### Flammable liquids

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The mixture is not classified as a flammable liquid according to the negative result of the sustained burning test according to ČSN EN ISO 9038.

### **Flammable solids**

It is not solid.

### **Self-reactive substances and mixtures**

Data for the mixture are not available.

The mixture does not contain substances classified as self-reactive substances or explosives or organic peroxides or oxidising, or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

### **Pyrophoric liquids**

Data for the mixture are not available.

The mixture does not contain substances classified as pyrophoric liquids or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

### **Pyrophoric solids**

It is not solid.

### **Self-heating substances and mixtures**

Data for the mixture are not available.

The mixture does not contain substances classified as self-heating or pyrophoric substances or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

### **Substances and mixtures, which emit flammable gases in contact with water**

Data for the mixture are not available.

The mixture does not contain substances classified as substances, which emit flammable gases in contact with water or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

### **Oxidising liquids**

Data for the mixture are not available.

The mixture does not contain substances classified as oxidising liquids or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

### **Oxidizing solids**

It is not solid.

### **Organic peroxides**

Data for the mixture are not available.

The mixture does not contain substances classified as organic peroxides or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

### **Corrosive to metals**

Data for the mixture are not available.

The mixture does not contain substances classified as corrosive to metals or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

### **Desensitised explosives**

Data for the mixture are not available.

The mixture does not contain substances classified as explosives or desensitised explosives, or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Propan-2-ol

CAS: 67-63-0

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### **Explosives**

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

Pure propan-2-ol is autoxidated by air and light to form an explosive cyclic triacetone triperoxide, which settles to the bottom of the vessel as a white sediment. In the event of such a finding, the container must be handled immediately and pyrotechnics called.

### **Flammable gases**

It is not gas.

### **Aerosols**

It is not aerosol.

### **Oxidising gases**

It is not gas.

### **Gases under pressure**

It is not gas.

### **Flammable liquids**

The substance is classified as flammable liquid category 2 according to the value of the flash point and boiling point.

### **Flammable solids**

It is not solid.

### **Self-reactive substances and mixtures**

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive or self-reactive properties.

### **Pyrophoric liquids**

Data for the substance are not available.

The substance is stable in air, there is no spontaneous ignition.

### **Pyrophoric solids**

It is not solid.

### **Self-heating substances and mixtures**

Data for the substance are not available.

The substance is not classified as self-heating.

### **Substances and mixtures, which emit flammable gases in contact with water**

Data for the substance are not available.

The chemical structure of the substance does not contain metals or metalloids.

The substance is miscible with water and forms a stable mixture with it.

### **Oxidising liquids**

Data for the substance are not available.

It is an organic substance that does not contain oxygen, fluorine or chlorine, or these elements are chemically bounded only to carbon or hydrogen.

### **Oxidizing solids**

It is not solid.

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### **Organic peroxides**

Data for the substance are not available.

The substance does not contain a bivalent group -O-O- with at least one organic radical.

### **Corrosive to metals**

Data for the substance are not available.

The substance is not classified as corrosive to metal.

### **Desensitised explosives**

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

**1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., inner salts**

CAS: 97862-59-4

### **Explosives**

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

### **Flammable gases**

It is not gas.

### **Aerosols**

It is not aerosol.

### **Oxidising gases**

It is not gas.

### **Gases under pressure**

It is not gas.

### **Flammable liquids**

It is not liquid.

### **Flammable solids**

Burning time = 510 s (EU method A.10).

### **Self-reactive substances and mixtures**

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive or self-reactive properties.

### **Pyrophoric liquids**

It is not liquid.

### **Pyrophoric solids**

Data for the substance are not available.

The substance is stable in air, there is no spontaneous ignition.

### **Self-heating substances and mixtures**

Data for the substance are not available.

The substance is not classified as self-heating.

### **Substances and mixtures, which emit flammable gases in contact with water**

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Data for the substance are not available.

The chemical structure of the substance does not contain metals or metalloids.

The substance is soluble in water and forms a stable mixture with it.

### ***Oxidising liquids***

It is not liquid.

### ***Oxidizing solids***

Data for the substance are not available.

It is an organic substance that does not contain oxygen, fluorine or chlorine, or these elements are chemically bounded only to carbon or hydrogen.

### ***Organic peroxides***

Data for the substance are not available.

The substance does not contain a bivalent group -O-O- with at least one organic radical.

### ***Corrosive to metals***

Data for the substance are not available.

The substance is not classified as corrosive to metal.

### ***Desensitised explosives***

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

**Fir, Abies sibirica, ext.**

CAS: 91697-89-1

### ***Explosives***

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

### ***Flammable gases***

It is not gas.

### ***Aerosols***

It is not aerosol.

### ***Oxidising gases***

It is not gas.

### ***Gases under pressure***

It is not gas.

### ***Flammable liquids***

The substance is classified as flammable liquid category 3 according to the value of the flash point and boiling point.

### ***Flammable solids***

It is not solid.

### ***Self-reactive substances and mixtures***

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive or self-reactive properties.

### ***Pyrophoric liquids***

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## KRYSTAL Gel for rim holders, green

Data for the substance are not available.

The substance is stable in air, there is no spontaneous ignition.

### **Pyrophoric solids**

It is not solid.

### **Self-heating substances and mixtures**

Data for the substance are not available.

The substance is not classified as self-heating.

### **Substances and mixtures, which emit flammable gases in contact with water**

Data for the substance are not available.

The chemical structure of the substance does not contain metals or metalloids.

The substance is miscible with water and forms a stable mixture with it.

### **Oxidising liquids**

Data for the substance are not available.

It is an organic substance that does not contain oxygen, fluorine or chlorine, or these elements are chemically bounded only to carbon or hydrogen.

### **Oxidizing solids**

It is not solid.

### **Organic peroxides**

Data for the substance are not available.

The substance does not contain a bivalent group -O-O- with at least one organic radical.

### **Corrosive to metals**

Data for the substance are not available.

The substance is not classified as corrosive to metal.

### **Desensitised explosives**

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

**Coumarin**

CAS: 91-64-5

### **Explosives**

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

### **Flammable gases**

It is not gas.

### **Aerosols**

It is not aerosol.

### **Oxidising gases**

It is not gas.

### **Gases under pressure**

It is not gas.

### **Flammable liquids**

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## KRYSTAL Gel for rim holders, green

It is not liquid.

### **Flammable solids**

The substance is not classified as flammable solid (UN,ST/SG/AC.10/11/Rev.5).

### **Self-reactive substances and mixtures**

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive or self-reactive properties.

### **Pyrophoric liquids**

It is not liquid.

### **Pyrophoric solids**

Data for the substance are not available.

The substance is stable in air, there is no spontaneous ignition.

### **Self-heating substances and mixtures**

Data for the substance are not available.

The substance is not classified as self-heating.

### **Substances and mixtures, which emit flammable gases in contact with water**

Data for the substance are not available.

The chemical structure of the substance does not contain metals or metalloids.

The substance is soluble in water and forms a stable mixture with it.

### **Oxidising liquids**

It is not liquid.

### **Oxidizing solids**

Data for the substance are not available.

It is an organic substance that does not contain oxygen, fluorine or chlorine, or these elements are chemically bounded only to carbon or hydrogen.

### **Organic peroxides**

Data for the substance are not available.

The substance does not contain a bivalent group -O-O- with at least one organic radical.

### **Corrosive to metals**

Data for the substance are not available.

The substance is not classified as corrosive to metal.

### **Desensitised explosives**

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

### **Ethanediol**

CAS: 107-21-1

### **Explosives**

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

### **Flammable gases**

It is not gas.

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### **Aerosols**

It is not an aerosol.

### **Oxidising gases**

It is not gas.

### **Gases under pressure**

It is not gas.

### **Flammable liquids**

The substance is not classified as flammable liquid according to the value of the flash point and boiling point.

### **Flammable solids**

It is not solid.

### **Self-reactive substances and mixtures**

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive or self-reactive properties.

### **Pyrophoric liquids**

Data for the substance are not available.

The substance is stable in air, there is no spontaneous ignition.

### **Pyrophoric solids**

It is not solid.

### **Self-heating substances and mixtures**

Data for the substance are not available.

The substance is not classified as self-heating.

### **Substances and mixtures, which emit flammable gases in contact with water**

Data for the substance are not available.

The chemical structure of the substance does not contain metals or metalloids.

The substance is miscible with water and forms a stable mixture with it.

### **Oxidising liquids**

Data for the substance are not available.

It is an organic substance that does not contain oxygen, fluorine or chlorine, or these elements are chemically bounded only to carbon or hydrogen.

### **Oxidizing solids**

It is not solid.

### **Organic peroxides**

Data for the substance are not available.

The substance does not contain a bivalent group -O-O- with at least one organic radical.

### **Corrosive to metals**

Data for the substance are not available.

The substance is not classified as corrosive to metal.

### **Desensitised explosives**

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## KRYSTAL Gel for rim holders, green

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

**Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)**

CAS: 55965-84-9

### **Explosives**

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

### **Flammable gases**

It is not gas.

### **Aerosols**

It is not aerosol.

### **Oxidising gases**

It is not gas.

### **Gases under pressure**

It is not gas.

### **Flammable liquids**

The substance is not classified as flammable liquid according to the value of the flash point and boiling point.

### **Flammable solids**

It is not solid.

### **Self-reactive substances and mixtures**

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive or self-reactive properties.

### **Pyrophoric liquids**

Data for the substance are not available.

The substance is stable in air, there is no spontaneous ignition.

### **Pyrophoric solids**

It is not solid.

### **Self-heating substances and mixtures**

Data for the substance are not available.

The substance is not classified as self-heating.

### **Substances and mixtures, which emit flammable gases in contact with water**

Data for the substance are not available.

The chemical structure of the substance does not contain metals or metalloids.

The substance is miscible with water and forms a stable mixture with it.

### **Oxidising liquids**

Data for the substance are not available.

It is an organic substance that does not contain oxygen, fluorine or chlorine, or these elements are chemically bounded only to carbon or hydrogen.

### **Oxidizing solids**

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It is not solid.

### **Organic peroxides**

Data for the substance are not available.

The substance does not contain a bivalent group -O-O- with at least one organic radical.

### **Corrosive to metals**

Data for the substance are not available.

The substance is not classified as corrosive to metal.

### **Desensitised explosives**

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

### **9.2.2. Other safety characteristics**

#### **Mechanical sensitivity**

Not determined, it is not an explosive substance.

#### **Self-accelerating polymerisation temperature**

Not determined, it is not a polymerising substance.

#### **Formation of explosive dust/air mixtures**

Not determined, it is not a dust.

#### **Acid/alkaline reserve**

Not determined, pH is in the range 4 - 10.

#### **Evaporation rate**

Not determined.

#### **Miscibility**

Not determined.

#### **Conductivity**

Not determined.

#### **Corrosiveness**

Not determined.

#### **Gas group**

Not determined, it is not gas.

#### **Redox potential**

Not determined.

#### **Radical formation potential**

Not determined.

#### **Photocatalytic properties**

Not determined.

## SECTION 10: Stability and reactivity

### **10.1. Reactivity**

The mixture is stable under normal conditions of use. There aren't any hazardous reaction.

### **10.2. Chemical stability**

Stable under recommended storage conditions.

### **10.3. Possibility of hazardous reactions**

Hazardous reactions aren't known under normal conditions of use.

### **10.4. Conditions to avoid**

Protect from frost.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

### **10.5. Incompatible materials**

Strong oxidizing agents.

### **10.6. Hazardous decomposition products**

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They do not form under normal use. Burning releases carbon oxides, sulphur oxides, hydrogen sulphide, nitrogen oxides, ammonia, chlorine oxides, hydrogen chloride, chlorine and products of incomplete combustion.

### SECTION 11: Toxicological information

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

##### Mixture

###### Acute toxicity

The mixture is not classified as toxic for all routes of exposure.

###### Oral

Data for the mixture are not available.

ATE<sub>mixture</sub> > 2 000 mg/kg bw (estimate, low concentration of substance classified as toxic oral route of exposure).

###### Dermal

Data for the mixture are not available.

The mixture does not contain relevant substances classified as an acute toxicity by dermal route of exposure or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

###### Inhalation

Data for the mixture are not available.

The mixture does not contain relevant substances classified as an acute toxicity by inhalation route of exposure or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

###### Skin corrosion/irritation

Data for the mixture are not available.

The mixture does not contain relevant substances classified as hazardous to skin or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

###### Serious eye damage/irritation

Data for the mixture are not available.

The mixture is classified as causes serious eye damage based on the general/specific concentration limits of substance(s).

###### Respiratory or skin sensitisation

Data for the mixture are not available.

The mixture is not classified as a skin sensitizing according to the general/specific concentration limits of substance(s).

EUH208 - Contains Fir, Abies sibirica, ext., Coumarin, 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.

###### Germ cell mutagenicity

Data for the mixture are not available.

The mixture does not contain substances classified as mutagenicity or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

###### Carcinogenicity

Data for the mixture are not available.

The mixture does not contain substances classified as carcinogenicity or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

###### Reproductive toxicity

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Data for the mixture are not available.

The mixture does not contain substances classified as toxic for reproduction or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

### **STOT – single exposure**

Data for the mixture are not available.

The mixture is not classified as toxic for specific target organs in a single exposure in category 3 according to the recommended concentration limits of substance(s).

### **STOT – repeated exposure**

Data for the mixture are not available.

The mixture does not contain relevant substances classified as toxic for specific target organs in a repeated exposure or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

### **Aspiration hazard**

Data for the mixture are not available.

The mixture does not contain relevant substances classified as aspiration hazard or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

### **Other information**

See sections 2 and 4.

**Propan-2-ol**

CAS: 67-63-0

### **Acute toxicity**

**Oral** Based on available data, the classification criteria are not met.  
 $LD_{50} = 5\ 840\ mg/kg\ bw$  (rat, OECD 401).

**Dermal** Based on available data, the classification criteria are not met.  
 $LD_{50} = 16.4\ ml/kg\ bw$  (12 792 mg/kg bw at a density of 0.78 g/cm<sup>3</sup>, rabbit, OECD 402).

**Inhalation** Based on available data, the classification criteria are not met.  
 $LC_{50} > 10\ 000\ ppm$  (vapour, 6 h, OECD 403).

### **Skin corrosion/irritation**

Based on available data, the classification criteria are not met.  
Mean erythema score = 0 and oedema = 0 (rabbit, OECD 404).

### **Serious eye damage/irritation**

The substance is classified as eye irritant.  
Total mean irritation score = 1.89 (rabbit, 72 h, OECD 405).

### **Respiratory or skin sensitisation**

Based on available data, the classification criteria are not met.  
Not skin sensitising (guinea pig, OECD 406).

### **Germ cell mutagenicity**

Based on available data, the classification criteria are not met.  
Negative (OECD 471, OECD 476).

### **Carcinogenicity**

Based on available data, the classification criteria are not met.  
 $NOAEL = 5\ 000\ ppm$  (testicular tumors, rat, male, vapour, OECD 451).

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### **Reproductive toxicity**

Based on available data, the classification criteria are not met.

NOAEL = 853 mg/kg/day (rat, oral, generation P0, OECD 415).

### **STOT – single exposure**

The substance may cause drowsiness or dizziness.

### **STOT – repeated exposure**

Based on available data, the classification criteria are not met.

NOEC = 500 ppm (specific toxic effect, rat, vapour, 104 weeks, OECD 451).

NOAEC = 5 000 ppm (specific exposure-related adverse reaction, rat, vapour, 104 weeks, OECD 451).

NOEC = 5 000 ppm (effects of oncogenicity, rat, vapour, 104 weeks, OECD 451).

### **Aspiration hazard**

The substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of 20.5 mm<sup>2</sup>/s or less at 40 °C.

**1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., inner salts**

CAS: 97862-59-4

### **Acute toxicity**

**Oral** Based on available data, the classification criteria are not met.

LD<sub>50</sub> = 2 335 mg/kg bw (rat, OECD 401).

**Dermal** Based on available data, the classification criteria are not met.

LD<sub>50</sub> > 2 000 mg/kg bw (rat, OECD 402).

**Inhalation** Data for the substance are not available.

### **Skin corrosion/irritation**

Based on available data, the classification criteria are not met.

Mean erythema score = 0.33; 1.67; 0.33 (fully reversible after 72 hours) and oedema = 0.33; 0.33; 0 (fully reversible after 48 hours) (rabbit, OECD 404).

### **Serious eye damage/irritation**

The substance is classified as seriously damaging to the eyes.

Mean score of corneal opacity = 1.33 (not fully reversible after 21 days), iritis = 1 (not fully reversible after 21 days), conjunctival redness = 3 (not fully reversible after 21 days), conjunctival oedema = 1.1 (fully reversible after 17 days) (rabbit, 72 hrs., OECD 405).

### **Respiratory or skin sensitisation**

Based on available data, the classification criteria are not met.

Not skin sensitising (guinea pig, OECD 406).

### **Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

Negative (OECD 476, EU method B13/14).

### **Carcinogenicity**

Data for the substance are not available.

### **Reproductive toxicity**

Data for the substance are not available.

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### **STOT – single exposure**

Data for the substance are not available.

### **STOT – repeated exposure**

Based on available data, the classification criteria are not met.

NOEL = 300 mg/kg/day (systemic effect, rat, oral, 90 days, OECD 408).

NOEL = 75 mg/kg/day (local effect, local irritative effects at the side of application (forestomach gastritis), judged as not relevant to humans due to significant different anatomic situation and exposure probability in humans, rat, oral, 90 days, OECD 408).

LOEL = 150 mg/kg/day (local effect, local irritative effects at the side of application (forestomach gastritis), judged as not relevant to humans due to significant different anatomic situation and exposure probability in humans, rat, oral, 90 days, OECD 408).

### **Aspiration hazard**

The substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of 20.5 mm<sup>2</sup>/s or less at 40 °C.

**Fir, Abies sibirica, ext.**

CAS: 91697-89-1

### **Acute toxicity**

**Oral** Based on available data, the classification criteria are not met.  
LD<sub>50</sub> > 5 000 mg/kg bw (rat, literature).

**Dermal** Data for the substance are not available.

**Inhalation** Data for the substance are not available.

### **Skin corrosion/irritation**

The substance is classified as skin irritant (calculation).

### **Serious eye damage/irritation**

The substance is classified as eye irritant (calculation).

### **Respiratory or skin sensitisation**

The substance is classified as skin sensitising in category 1 (calculation).

### **Germ cell mutagenicity**

Based on available data, the classification criteria are not met.  
Negative (OECD 471).

### **Carcinogenicity**

Data for the substance are not available.

### **Reproductive toxicity**

Data for the substance are not available.

### **STOT – single exposure**

Data for the substance are not available.

### **STOT – repeated exposure**

Data for the substance are not available.

### **Aspiration hazard**

The substance is a hydrocarbon with a kinematic viscosity of 20.5 mm<sup>2</sup>/s or less at 40 °C.

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|                                          |                                                                                                                                                                                                                                           |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Coumarin</b>                          | CAS: 91-64-5                                                                                                                                                                                                                              |
| <b>Acute toxicity</b>                    |                                                                                                                                                                                                                                           |
| <b>Oral</b>                              | The substance is classified in category 4.<br>ATE = 500 mg/kg bw (for calculation by additive formula).                                                                                                                                   |
| <b>Dermal</b>                            | Data for the substance are not available.                                                                                                                                                                                                 |
| <b>Inhalation</b>                        | Data for the substance are not available.                                                                                                                                                                                                 |
| <b>Skin corrosion/irritation</b>         |                                                                                                                                                                                                                                           |
|                                          | Based on available data, the classification criteria are not met.<br>Mean erythema score = 0.625 and oedema = 0.459 (rabbit, 72 hrs., EU Method B.4).                                                                                     |
| <b>Serious eye damage/irritation</b>     |                                                                                                                                                                                                                                           |
|                                          | Based on available data, the classification criteria are not met.<br>Mean score of corneal opacity = 0, iritis = 0, conjunctival redness = 0.67 (fully reversible after 4 days), conjunctival oedema = 0 (rabbit, 72 hrs., EPA OPP 81-4). |
| <b>Respiratory or skin sensitisation</b> |                                                                                                                                                                                                                                           |
|                                          | The substance is classified as skin sensitising in category 1 (human, patch test).                                                                                                                                                        |
| <b>Germ cell mutagenicity</b>            |                                                                                                                                                                                                                                           |
|                                          | Based on available data, the classification criteria are not met.<br>Negative (OECD 471, OECD 473, OECD 476).                                                                                                                             |
| <b>Carcinogenicity</b>                   |                                                                                                                                                                                                                                           |
|                                          | Data for the substance are not available.                                                                                                                                                                                                 |
| <b>Reproductive toxicity</b>             |                                                                                                                                                                                                                                           |
|                                          | Based on available data, the classification criteria are not met.<br>NOAEL > 333 mg/kg/day (mating/pregnancy ratio, rat, female, oral, generation P0).                                                                                    |
| <b>STOT – single exposure</b>            |                                                                                                                                                                                                                                           |
|                                          | Data for the substance are not available.                                                                                                                                                                                                 |
| <b>STOT – repeated exposure</b>          |                                                                                                                                                                                                                                           |
|                                          | Based on available data, the classification criteria are not met.<br>NOAEL > 138.3 mg/kg/day (mouse, female, oral).                                                                                                                       |
| <b>Aspiration hazard</b>                 |                                                                                                                                                                                                                                           |
|                                          | The substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of 20.5 mm <sup>2</sup> /s or less at 40 °C.                                                                                                   |
| <b>Ethanediol</b>                        | CAS: 107-21-1                                                                                                                                                                                                                             |
| <b>Acute toxicity</b>                    |                                                                                                                                                                                                                                           |
| <b>Oral</b>                              | The substance is classified in category 4 according to harmonized classification.<br>LD <sub>50</sub> = 7 712 mg/kg bw (rat, 30% solution, BASF test).<br>ATE = 500 mg/kg bw (for calculation by additive formula).                       |
| <b>Dermal</b>                            | Based on available data, the classification criteria are not met.<br>LD <sub>50</sub> > 3 500 mg/kg bw (mouse, literature).                                                                                                               |

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**Inhalation** Based on available data, the classification criteria are not met.  
LC<sub>50</sub> > 2.5 mg/l (aerosol, rat, 6 hrs., no death is observed, literature).

### **Skin corrosion/irritation**

Based on available data, the classification criteria are not met.  
Total irritation score = 0 (BASF test).

### **Serious eye damage/irritation**

Based on available data, the classification criteria are not met.  
Total irritation score = 0 (BASF test).

### **Respiratory or skin sensitisation**

Based on available data, the classification criteria are not met.  
Not skin sensitising (guinea pig, maximization test).

### **Germ cell mutagenicity**

Based on available data, the classification criteria are not met.  
Negative (OECD 471).

### **Carcinogenicity**

Based on available data, the classification criteria are not met.  
NOAEL = 1 000 mg/kg/day (rat, oral, literature).

### **Reproductive toxicity**

Based on available data, the classification criteria are not met.  
NOAEL > 1 000 mg/kg/day (rat, oral, generation P0, literature).  
NOAEL > 1 000 mg/kg/day (rat, oral, generation F1, literature).

### **STOT – single exposure**

Data for the substance are not available.

### **STOT – repeated exposure**

May cause damage to kidney through prolonged or repeated oral exposure.  
NOAEL = 853 mg/kg/day (kidney, rat, oral, 90 days, OECD 408).

### **Aspiration hazard**

The substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of 20.5 mm<sup>2</sup>/s or less at 40 °C.

**Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)**

CAS: 55965-84-9

### **Acute toxicity**

**Oral** The substance is classified in category 3.  
LD<sub>50</sub> = 66 mg/kg bw (rat, OECD 401).

**Dermal** The substance is classified in category 2.  
LD<sub>50</sub> = 87 mg/kg bw (rat, OECD literature).

**Inhalation** The substance is classified in category 2.  
LC<sub>50</sub> = 0.17 mg/l (aerosol, rat, 4 hrs., OECD 403).

### **Skin corrosion/irritation**

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The substance is classified as skin corrosion in category 1C.

Mean erythema score = 1.7 (exposure time 4 hours, fully reversible in 11 days) and edema = 0.7 (exposure time 4 hours, fully reversible in 8 days) (rabbit, 72 hours, OECD 404).

### ***Serious eye damage/irritation***

The substance is classified as seriously damaging to the eyes (rabbit, 72 hrs., literature).

### ***Respiratory or skin sensitisation***

The substance is classified as skin sensitising in category 1A (guinea pig, OECD 406).

### ***Germ cell mutagenicity***

Based on available data, the classification criteria are not met.

#### In vitro:

Pozitive (OECD 471, OECD 476).

#### In vivo:

Negative (OECD 474, OECD 475, OECD 477, OE3CD 486).

### ***Carcinogenicity***

Based on available data, the classification criteria are not met.

NOEL = 300 ppm (rat, oral, OECD 453).

### ***Reproductive toxicity***

Based on available data, the classification criteria are not met.

NOAEL = 30 ppm (overall effect, rat, oral, generation P0, OECD 416).

NOAEL = 300 ppm (reproduction, rat, oral, generation P1, OECD 416).

NOAEL = 300 ppm (reproduction and development, rat, oral, generation F1, OECD 416).

NOAEL = 300 ppm (viability, clinical signs, rat, oral, generation F2, OECD 416).

### ***STOT – single exposure***

Data for the substance are not available.

### ***STOT – repeated exposure***

Based on available data, the classification criteria are not met.

NOAEL = 6.28 mg/kg/day (overall effect, rat, oral, 90 d., OECD 408).

NOAEL = 0.4 mg/kg/day (overall effect, rabbit, dermal, 90 d., OECD 411).

NOAEC = 0.34 mg/kg/day (histopathology, rat, aerosol, 90 d., OECD 413).

### ***Aspiration hazard***

The substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of 20.5 mm<sup>2</sup>/s or less at 40 °C.

## **11.2. Information on other hazards**

Mixture does not contain substance(s) meeting the criteria for persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) in accordance with Annex XIII of REACH regulation. The mixture and its substances are not mentioned on the Candidate list for possible inclusion in Annex XIV of REACH at the date of the revision of the safety data sheet and given in the list (established in accordance with Article 59(1) for having endocrine disrupting properties of REACH regulation).

Mixture does not contain the substance(s) 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. There is no other relevant information on adverse health effects that is not required according to the classification criteria set out in CLP Regulation.

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## KRYSTAL Gel for rim holders, green

### SECTION 12: Ecological information

#### 12.1. Toxicity

##### Mixture

Data for the mixture are not available.

##### Acute aquatic toxicity

The mixture does not contain relevant substances classified as acute aquatic toxicity or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

##### Chronic aquatic toxicity

The mixture is not classified as chronic aquatic toxicity based on calculation according to the summation method.

| category | 1 | 2 | 3    | 4    |
|----------|---|---|------|------|
| Σ        | 0 | 0 | < 20 | < 20 |

##### Propan-2-ol

CAS: 67-63-0

The substance is not classified as hazardous for the aquatic environment.

##### Fish

LC<sub>50</sub>, 96 hrs., Pimephales promelas: 9 640 - 10 000 mg/l (mortality, OECD 203)

EC<sub>50</sub>, 24 hrs., Daphnia Magna: > 10 000 mg/l (mobility, OECD 202)

logNOEC, 16 d., Daphnia Magna: 3.37 (growth, NOEC = 2 344 µmol/l = 140.9 mg/l)

##### Algae

Threshold toxicity, 7 d., Scenedesmus quadricauda: 1.800 mg/l

##### 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., inner salts

CAS: 97862-59-4

The substance is classified as Aquatic Chronic 3; H412.

##### Fish

LC<sub>50</sub>, 96 hrs., Pimephales promelas: 1.1 mg/l (mortality, OECD 203).

NOEC, 37 d., Oncorhynchus mykiss: 0.135 mg/l (egg hatch, OECD 210).

##### Crustaceans

EC<sub>50</sub>, 48 hrs., Daphnia Magna: 6.5 mg/l (mobility, OECD 202).

NOEC, 21 d., Daphnia Magna: 0.32 mg/l (reproduction, OECD 211).

NOEC, 21 d., Daphnia Magna: 0.56 mg/l (mortality, OECD 211).

##### Algae

EC<sub>50</sub>, 72 hrs., Pseudokirchneriella subcapitata: ca. 8 mg/l (growth rate, OECD 201).

EC<sub>50</sub>, 72 hrs., Pseudokirchneriella subcapitata: > 10 mg/l (biomass, OECD 201).

NOEC, 72 hrs., Pseudokirchneriella subcapitata: 3.2 mg/l (growth rate and biomass, OECD 201).

##### Fir, Abies sibirica, ext.

CAS: 91697-89-1

The substance is classified as Aquatic Chronic 2; H411.

##### Fish

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LL<sub>50</sub>, 96 hrs.: 8.6 mg/l (mortality, calculation).

### **Crustaceans**

EL<sub>50</sub>, 48 hrs.: 3.6 mg/l (mobility, calculation).

### **Algae**

EL<sub>50</sub>, 72 hrs.: 5.3 mg/l (growth rate, calculation).

### **Coumarin**

CAS: 91-64-5

The substance is classified as Aquatic Chronic 3; H412.

### **Fish**

LC<sub>50</sub>, 96 hrs.: 2.94 mg/l (Q)SAR method.

NOEC, 30 d.: 0.191 mg/l (Q)SAR method.

### **Crustaceans**

EC<sub>50</sub>, 48 hrs., Daphnia Magna: 24.3 - 36.9 mg/l (mobility, literature).

NOEC, 21 d.: 0.5 mg/l (Q)SAR method.

### **Algae**

EC<sub>50</sub>, 72 hrs.: 1.452 mg/l (Q)SAR method.

NOEC, 72 hrs.: 0.431 mg/l (Q)SAR method.

### **Ethanediol**

CAS: 107-21-1

The substance is not classified as hazardous for the aquatic environment.

### **Fish**

LC<sub>50</sub>, 96 hrs., Pimephales promelas: > 72 860 mg/l (mortality, literature).

NOEC, 7 d., Pimephales promelas: 32 000 mg/l (mortality, EPA 600/4-89/001).

### **Crustaceans**

EC<sub>50</sub>, 48 hrs., Daphnia Magna: > 100 mg/l (mobility, OECD 202).

NOEC, 21 d., Daphnia Magna: 2 mg/l (reproduction, literature).

### **Algae**

IC<sub>50</sub>, 96 hrs., Pseudokirchneriella subcapitata: 10 940 mg/l (number of cells, EPA/600/4-89/001).

### **Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)**

CAS: 55965-84-9

The substance is classified as Aquatic Acute 1; H400 (M=100) and Aquatic Chronic 1; H410 (M=100).

### **Fish**

LC<sub>50</sub>, 96 hrs., Oncorhynchus mykiss: 0.19 mg/l (mortality, EPA OPP 72-1).

NOEC, 35 d., Brachydanio rerio: ≥ 46.4 µg/l (mortality, OECD 210).

### **Crustaceans**

EC<sub>50</sub>, 48 hrs., Daphnia Magna: 0.099 mg/l (mobility, OECD 202).

NOEC, 21 d., Daphnia Magna: 11.1 µg/l (reproduction, OECD 211).

### **Algae**

EC<sub>50</sub>, 72 hrs., Skeletonema costatum: 6.3 µg/l (growth rate, OECD 201).

NOEC, 48 hrs., Skeletonema costatum: 0.49 µg/l (growth rate, OECD 201).

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## KRYSTAL Gel for rim holders, green

### 12.2. Persistence and degradability

#### Mixture

Data for the mixture are not available.

The surfactants are contained in this preparation in accordance with the biodegradability criteria according to Regulation (EC) No. 648/2004 on detergents.

#### Propan-2-ol

CAS: 67-63-0

Readily biodegradable: 53 % after 5 days (CO<sub>2</sub> evolution, OECD 301 B).

#### 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., inner salts

CAS: 97862-59-4

Readily biodegradable: 91.6 % after 28 days (CO<sub>2</sub> evolution, OECD 301 B).

#### Fir, *Abies sibirica*, ext.

CAS: 91697-89-1

Readily biodegradable: 70 % after 28 days (O<sub>2</sub> consumption, OECD 301 D).

#### Coumarin

CAS: 91-64-5

Readily biodegradable: ca. 90 % after 28 days (O<sub>2</sub> consumption, OECD 301 F).

#### Ethanediol

CAS: 107-21-1

Readily biodegradable: 90 - 100 % after 10 days (removal of dissolved organic carbon, OECD 301 A).

#### Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

CAS: 55965-84-9

Not readily biodegradable: 38.8 % after 29 days (CO<sub>2</sub> evolution, OECD 301 B).

### 12.3. Bioaccumulative potential

#### Mixture

Data for the mixture are not available.

#### Propan-2-ol

CAS: 67-63-0

log Pow = 0.05 (25 °C).

#### 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., inner salts

CAS: 97862-59-4

BCF = 3 (C8 derivates, (Q)SAR method).

BCF = 71 (C10-18 a C18 unsaturated derivates, (Q)SAR method).

log Pow = 1.79 (pH = 3 - 8, 20 °C, C8 derivates, (Q)SAR method).

log Pow = 2.81 (pH = 3 - 8, 20 °C, C10 derivates, (Q)SAR method).

log Pow = 3.54 (pH = 3 - 8, 20 °C, C12 derivates, (Q)SAR method).

log Pow = 5.13 (pH = 3 - 8, 20 °C, C14 derivates, (Q)SAR method).

log Pow = 6.15 (pH = 3 - 8, 20 °C, C16 derivates, (Q)SAR method).

log Pow = 7.17 (pH = 3 - 8, 20 °C, C18 derivates, (Q)SAR method).

#### Fir, *Abies sibirica*, ext.

CAS: 91697-89-1

log Pow = 4.78 ((Q)SAR method).

#### Coumarin

CAS: 91-64-5

log Pow = 1.39 (25 °C, pH = 7, (Q)SAR method).

#### Ethanediol

CAS: 107-21-1

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log Pow = -1.36 (literature).

**Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)**

CAS: 55965-84-9

BCF, Lepomis macrochirus: 41 - 54 (OECD 305 E).

log Pow = 0.326 (2-methyl-2H-isothiazol-3-one, 24 °C, OECD 107).

log Pow = 2.519 (5-chloro-2-methyl-2H-isothiazol-3-one, 24 °C, OECD 107).

### 12.4. Mobility in soil

#### Mixture

Data for the mixture are not available.

#### Propan-2-ol

CAS: 67-63-0

Data for the substance are not available.

**1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., inner salts**

CAS: 97862-59-4

log Koc = 2.423 - 5.081 ((Q)SAR method).

#### Fir, Abies sibirica, ext.

CAS: 91697-89-1

Data for the substance are not available.

#### Coumarin

CAS: 91-64-5

log Koc = ca. 1.63 (20 °C, (Q)SAR method).

#### Ethanediol

CAS: 107-21-1

log Koc = 0 l/kg ((Q)SAR method).

**Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)**

CAS: 55965-84-9

Koc = 6.4 - 10 (pH = 4.7 - 7.4, OECD 106).

### 12.5. Results of PBT and vPvB assessment

Mixture does not contain substance(s) meeting the criteria for persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) in accordance with Annex XIII of REACH Regulation. The mixture and its substances are not mentioned on the Candidate list for possible inclusion in Annex XIV of REACH at the date of the revision of the safety data sheet (established in accordance with Article 59(1) of REACH Regulation).

### 12.6. Endocrine disrupting properties

The mixture and its substances are not mentioned on the Candidate list for possible inclusion in Annex XIV of REACH at the date of the revision of the safety data sheet (established in accordance with Article 59(1) of REACH Regulation). Mixture does not contain the substance(s) 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.

### 12.7. Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal methods of the substance or mixture and the contaminated packaging**

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Dispose according to the applicable European and local regulations. Do not empty unused product into drainage systems. Do not contaminate ponds or ditches with the product or used container. Do not dispose with municipal waste.

Hand over residual quantities and unregenerate solutions to the collection yard according to the worker's instructions. Empty, cleaned packaging can be stored at a landfill of the appropriate category or **in the sorted waste**.

### **Possible waste code**

07 06 01 aqueous washing liquids and mother liquors (mixture), 15 01 10\* - packaging containing residues of or contaminated by hazardous substances (contaminated packaging), 15 01 02 - plastic packaging (clear packaging).

### **Physical/chemical properties that may affect waste treatment options**

Not known.

### **Special precautions recommended for waste management**

Not known.

### **Waste legislation**

Directive 2008/98/EC on waste and repealing certain Directives, as amended.

## SECTION 14: Transport information

The mixture is not classified as a flammable liquid according to the negative result of the sustained burning test according to ČSN EN ISO 9038.

### **14.1. UN number or ID number**

Not given.

### **14.2. UN proper shipping name**

Not given.

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

Not given.

### **14.4. Packing group**

Not given.

### **14.5. Environmental hazards**

It is not dangerous for the environment during transport.

### **14.6. Special precautions for user**

Not given.

### **14.7. Maritime transport in bulk according to IMO instruments**

Not available.

## SECTION 15: Regulatory information

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

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Regulation No. 1907/2006/EC, concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals, as amended (REACH)

Regulation No. 1272/2008/EC, on Classification, Labelling and Packaging of substances and mixtures, as amended (CLP)

Regulation No. 648/2004/EC on detergents, as amended

### 15.2. Chemical safety assessment

It has not been carried out for mixture.

## SECTION 16: Other information

### *Reason for the revision of the safety data sheet*

Change of the classification and labeling of the mixture. Change in the composition of the mixture in section 3 and related changes in the other sections. The values in sections 8, 9, 11 and 12 are added according to the registration dossier of compounds. Change in section 14.

### *Key or legend to abbreviations and acronyms*

|                   |                                                                                                    |
|-------------------|----------------------------------------------------------------------------------------------------|
| Acute Tox. 2      | Acute toxicity, cat. 2                                                                             |
| Acute Tox. 3      | Acute toxicity, cat. 3                                                                             |
| Acute Tox. 4      | Acute toxicity, cat. 4                                                                             |
| Aquatic Acute 1   | Acute aquatic hazard, cat. 1                                                                       |
| Aquatic Chronic 1 | Chronic aquatic hazard, cat. 1                                                                     |
| Aquatic Chronic 2 | Chronic aquatic hazard, cat. 2                                                                     |
| Aquatic Chronic 3 | Chronic aquatic hazard, cat. 3                                                                     |
| Asp. Tox. 1       | Aspiration hazard, cat. 1                                                                          |
| Eye Dam. 1        | Serious eye damage, cat. 1                                                                         |
| Eye Irrit. 2      | Eye irritation, cat. 2                                                                             |
| Flam. Liq. 2      | Flammable liquid, cat. 2                                                                           |
| Flam. Liq. 3      | Flammable liquid, cat. 3                                                                           |
| Skin Corr. 1C     | Skin corrosion, cat. 1C                                                                            |
| Skin Irrit. 2     | Skin irritation, cat. 2                                                                            |
| Skin Sens. 1A     | Skin sensitization, cat. 1A                                                                        |
| Skin Sens. 1      | Skin sensitization, cat. 1                                                                         |
| STOT RE 2         | Specific target organ toxicity - repeated exposure, cat. 2                                         |
| STOT SE 3         | Specific target organ toxicity - single exposure, cat. 3                                           |
| ATE               | Acute Toxicity Estimate                                                                            |
| bw                | body weight                                                                                        |
| M                 | Multiplying factor                                                                                 |
| ADR               | Accord Dangereuses Route                                                                           |
| CLP               | Regulation No. 1272/2008/EC, on Classification, Labelling and Packaging of substances and mixtures |
| DNEL              | Derived No Effect Level                                                                            |

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|           |                                                                                                                  |
|-----------|------------------------------------------------------------------------------------------------------------------|
| ICAO/IATA | International Air Transport Association                                                                          |
| IMDG      | International Maritime Dangerous Goods                                                                           |
| PBT       | Persistent, bioaccumulative, toxic substance                                                                     |
| PNEC      | Predicted No Effect Concentration                                                                                |
| REACH     | Regulation No. 1907/2006/EC, concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID       | Regulation concerning the International Carriage of Dangerous Goods by Rail                                      |
| STOT      | Specific target organ toxicity                                                                                   |
| vPvB      | Very persistent and very bioaccumulative substance                                                               |

### **Sources of key data used to compile the Safety Data Sheet**

European legislation, manufacturer's safety data sheet, registration dossier of substances.

### **List of H- and P- phrases**

|                |                                                                                                                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| EUH071         | Corrosive to the respiratory tract.                                                                                              |
| H225           | Highly flammable liquid and vapour.                                                                                              |
| H226           | Flammable liquid and vapour.                                                                                                     |
| H301           | Toxic if swallowed.                                                                                                              |
| H302           | Harmful if swallowed.                                                                                                            |
| H304           | May be fatal if swallowed and enters airways.                                                                                    |
| H310           | Fatal in contact with skin.                                                                                                      |
| H314           | Causes severe skin burns and eye damage.                                                                                         |
| H315           | Causes skin irritation.                                                                                                          |
| H317           | May cause an allergic skin reaction.                                                                                             |
| H318           | Causes serious eye damage.                                                                                                       |
| H319           | Causes serious eye irritation.                                                                                                   |
| H330           | Fatal if inhaled.                                                                                                                |
| H336           | May cause drowsiness or dizziness.                                                                                               |
| H373           | May cause damage to organs through prolonged or repeated exposure.                                                               |
| H400           | Very toxic to aquatic life.                                                                                                      |
| H410           | Very toxic to aquatic life with long lasting effects.                                                                            |
| H411           | Toxic to aquatic life with long lasting effects.                                                                                 |
| H412           | Harmful to aquatic life with long lasting effects.                                                                               |
| P102           | Keep out of reach of children.                                                                                                   |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P310           | Immediately call a POISON CENTER/doctor.                                                                                         |
| P501           | Dispose of contents/container by handing it over to a collection yard or sorted waste.                                           |

### **Training advice**

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According to SDS.

### ***Other information***

Classification according to data from the manufacturer. The mixture is classified using calculation methods according to Regulation CLP and tests. Use only for the purposes designated by the manufacturer, will prevent health and environmental risks.

The information in this safety data sheet has been prepared according to the best available knowledge. The safety data sheet has been compiled in good faith but without guarantee. Various factors may influence properties under specific conditions. It is the responsibility of the product user to assess the accuracy of the information for their specific application. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

The safety data sheet is prepared in accordance with Regulation No. 2020/878/EC. There is no additional information in accordance with the local and national legislation of the Member State in the European Union, in the safety data sheet.

The safety data sheet was prepared by LACHEPRA s.r.o.