

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## FKL OSR BLAU

|                |                              |                         |  |
|----------------|------------------------------|-------------------------|--|
| Version<br>1.0 | Revision Date:<br>08.08.2024 | SDS Number:<br>50002031 | Date of last issue: -<br>Date of first issue: 08.08.2024 |
|----------------|------------------------------|-------------------------|--|

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

#### 1.1 Product identifier

**Product name** FKL OSR BLAU

#### Other means of identification

**Product code** 50002031

This substance/ mixture contains nanoforms (according to REACH Regulation)

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

**Use of the Substance/Mixture** : Adjuvant for plant protection products

**Recommended restrictions on use** : Use as recommended by the label.  
For professional and industrial use only

#### 1.3 Manufacturer or supplier's details

##### Supplier Address

Cheminova Deutschland GmbH & Co. KG  
Stader Elbstrasse 26  
21683 Stade  
Germany

Telephone: +49 (0) 4141 9204 0  
Telefax: +45 (0) 4141 9204 206  
E-mail address: datenblatt@fmc.com, SDS-Info@fmc.com .

#### 1.4 Emergency telephone number

For leak, fire, spill or accident emergencies, call:  
Germany: +49-69643508409 (CHEMTREC)  
0800-181-7059 (CHEMTREC)

Medical emergency:  
Germany: +49 (0) 551 19240

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### **Classification (REGULATION (EC) No 1272/2008)**

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

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Long-term (chronic) aquatic hazard, Category 3

H412: Harmful to aquatic life with long lasting effects.

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements :  
H317 May cause an allergic skin reaction.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P261 Avoid breathing mist or vapours.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

#### **Response:**

P302 + P352 IF ON SKIN: Wash with plenty of water and soap.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.

#### **Disposal:**

P501 Dispose of contents/container as hazardous waste in accordance with local regulations.

#### Hazardous components which must be listed on the label:

octhiline (ISO)  
1,2-benzisothiazol-3(2H)-one  
2-methylisothiazol-3(2H)-one  
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

#### Additional Labelling

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Components

| Chemical name               | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification  | Concentration<br>(% w/w)  |
|-----------------------------|---|---|---------------------------|
| Tristyrylphenol ethoxylates | 99734-09-5  | Aquatic Chronic 3;<br>H412  | $\geq 2,5$ - $< 10$       |
| octhilinone (ISO)           | 26530-20-1<br>247-761-7<br>613-112-00-5               | Acute Tox. 3; H301<br>Acute Tox. 2; H330<br>Acute Tox. 3; H311<br>Skin Corr. 1; H314<br>Eye Dam. 1; H318<br>Skin Sens. 1A; H317<br>Aquatic Acute 1;<br>H400<br>Aquatic Chronic 1;<br>H410<br>EUH071<br><br>M-Factor (Acute<br>aquatic toxicity): 100<br>M-Factor (Chronic<br>aquatic toxicity): 100<br><br>specific concentration<br>limit<br>Skin Sens. 1A; H317<br>$\geq 0,0015$ %<br><br>Acute toxicity estimate<br><br>Acute oral toxicity:<br>125 mg/kg<br>Acute inhalation tox- | $\geq 0,0025$ - $< 0,025$ |

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|                              |  |  |                     |
|------------------------------|--|--|---------------------|
|                              |  | icity (dust/mist): 0,27 mg/l<br>Acute dermal toxicity: 311 mg/kg   |                     |
| 1,2-benzisothiazol-3(2H)-one | 2634-33-5<br>220-120-9<br>613-088-00-6 | Acute Tox. 2; H330<br>Acute Tox. 4; H302<br>Skin Irrit. 2; H315<br>Eye Dam. 1; H318<br>Skin Sens. 1A; H317<br>Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410<br><br>M-Factor (Acute aquatic toxicity): 1<br>M-Factor (Chronic aquatic toxicity): 1<br><br>specific concentration limit<br>Skin Sens. 1A; H317<br>>= 0,036 %<br><br>Acute toxicity estimate<br><br>Acute oral toxicity: 450 mg/kg<br>Acute inhalation toxicity (dust/mist): 0,21 mg/l | >= 0,0025 - < 0,025 |
| 2-methylisothiazol-3(2H)-one | 2682-20-4<br>220-239-6<br>613-326-00-9 | Acute Tox. 3; H301<br>Acute Tox. 2; H330<br>Acute Tox. 3; H311<br>Skin Corr. 1B; H314<br>Skin Sens. 1A; H317<br>Eye Dam. 1; H318<br>Skin Sens. 1A; H317<br>Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410<br>EUH071<br><br>M-Factor (Acute aquatic toxicity): 10<br>M-Factor (Chronic aquatic toxicity): 1   | >= 0,0025 - < 0,025 |

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|   |                            |  |                      |
|---|----------------------------|--|----------------------|
|   |                            | <div>specific concentration limit<br/>Skin Sens. 1A; H317<br/>&gt;= 0,0015 %</div> <div>Acute toxicity estimate<br/><br/>Acute oral toxicity:<br/>120 mg/kg<br/>Acute inhalation toxicity (dust/mist): 0,11 mg/l<br/>Acute dermal toxicity:<br/>242 mg/kg</div>  |                      |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | 55965-84-9<br>613-167-00-5 | <div>Acute Tox. 3; H301<br/>Acute Tox. 2; H330<br/>Acute Tox. 2; H310<br/>Skin Corr. 1C; H314<br/>Eye Dam. 1; H318<br/>Skin Sens. 1A; H317<br/>Aquatic Acute 1; H400<br/>Aquatic Chronic 1; H410<br/>EUH071</div> <div>M-Factor (Acute aquatic toxicity): 100<br/>M-Factor (Chronic aquatic toxicity): 100</div> <div>specific concentration limit<br/>Skin Corr. 1C; H314<br/>&gt;= 0,6 %<br/>Skin Irrit. 2; H315<br/>0,06 - &lt; 0,6 %<br/>Eye Irrit. 2; H319<br/>0,06 - &lt; 0,6 %<br/>Skin Sens. 1A; H317<br/>&gt;= 0,0015 %<br/>Eye Dam. 1; H318<br/>&gt;= 0,6 %</div> <div>Acute toxicity estimate</div> | >= 0,0002 - < 0,0015 |

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|  |  |   |  |
|--|--|---|--|
|  |  | Acute oral toxicity:<br>200 mg/kg<br>Acute inhalation toxicity (dust/mist): 0,33 mg/l<br>Acute dermal toxicity:<br>87 mg/kg |  |
|--|--|---|--|

For explanation of abbreviations see section 16.

This substance/ mixture contains nanoforms (according to REACH Regulation)

### Components:

#### **29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper:**

##### Particle characteristics

|                             |   |
|-----------------------------|---|
| Particle Size Distribution  | : D10 = 0,023 $\mu\text{m} \pm 0,018 \mu\text{m}$<br>D50 = 0,035 $\mu\text{m} \pm 0,025 \mu\text{m}$<br>D90 = 0,050 $\mu\text{m} \pm 0,030 \mu\text{m}$<br>Measurement technique: TEM   |
| Assessment                  | : This substance/ mixture contains nanoforms (according to REACH Regulation)<br>Total Content of Nanomaterials: 80 - 100 %  |
| Shape                       | : Shape: cubes<br>Fraction (Weight): 5 - 100 %<br>Measurement technique: TEM<br><br>Shape: spheres<br>Fraction (Weight): 0 - 50 %<br>Measurement technique: TEM<br><br>Shape: sticks<br>Fraction (Weight): 0 - 70 %<br>Measurement technique: TEM |
| Crystallinity               | : Crystallinity: crystalline<br>Measurement technique: X-ray Diffraction (XRD)  |
| Surface treatment /Coatings | : Surface treatment /Coatings: no   |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

|                |                                       |
|----------------|---------------------------------------|
| General advice | : Do not leave the victim unattended. |
| If inhaled     | : Remove to fresh air.                |

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If unconscious, place in recovery position and seek medical advice.  
If experiencing any discomfort, immediately remove from exposure. Light cases: Keep person under surveillance. Get medical attention immediately if symptoms develop. Serious cases: Get medical attention immediately or call for an ambulance.

|                         |   |
|-------------------------|---|
| In case of skin contact | : If on clothes, remove clothes.<br>If on skin, rinse well with water.<br>Wash off with soap and plenty of water.<br>Get medical attention immediately if irritation develops and persists.                                       |
| In case of eye contact  | : Remove contact lenses.<br>Protect unharmed eye.<br>If eye irritation persists, consult a specialist.  |
| If swallowed            | : Keep respiratory tract clear.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.<br>Do not induce vomiting without medical advice. |

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

|       |  |
|-------|--|
| Risks | : May cause an allergic skin reaction. |
|-------|--|

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

|           |   |
|-----------|---|
| Treatment | : Treat symptomatically.<br>Immediate medical attention is required in case of ingestion. |
|-----------|---|

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

|                                |  |
|--------------------------------|--|
| Suitable extinguishing media   | : Dry chemical, CO <sub>2</sub> , water spray or regular foam.     |
| Unsuitable extinguishing media | : Do not spread spilled material with high-pressure water streams. |

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

|                                       |   |
|---------------------------------------|---|
| Specific hazards during fire-fighting | : Do not allow run-off from fire fighting to enter drains or water courses.   |
| Hazardous combustion products         | : Fire may produce irritating, corrosive and/or toxic gases.<br>Carbon oxides |

### 5.3 Advice for firefighters

|                              |  |
|------------------------------|--|
| Special protective equipment | : Wear self-contained breathing apparatus for firefighting if nec- |
|------------------------------|--|

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for firefighters

essary.

Further information

: Standard procedure for chemical fires.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
If it can be safely done, stop the leak.  
Keep people away from and upwind of spill/leak.  
Remove all sources of ignition.  
Immediately evacuate personnel to safe areas.  
Ensure adequate ventilation.  
Never return spills in original containers for re-use.  
Mark the contaminated area with signs and prevent access to unauthorized personnel.  
Only qualified personnel equipped with suitable protective equipment may intervene.

#### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).  
Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : General industrial hygiene practice.

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

Requirements for storage : Containers which are opened must be carefully resealed and



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areas and containers      kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.

Advice on common storage      :    No materials to be especially mentioned.

Storage class (TRGS 510)      :    10

Recommended storage temperature      :    5 - 35 °C

Further information on storage stability      :    No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s)      :    The product may be used as adjuvant for plant protection products only.  
Use only in accordance with the instruction manual.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components  | CAS-No.   | Value type (Form of exposure) | Control parameters     | Basis       |
|---|---|-------------------------------|------------------------|-------------|
| octhilinone (ISO)   | 26530-20-1  | MAK (inhalable fraction)      | 0,05 mg/m <sup>3</sup> | DE DFG MAK  |
|   | Peak-limit: excursion factor (category): 2; I   |                               |                        |             |
|   | Further information: Danger of sensitization of the skin, Danger of absorption through the skin, Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed |                               |                        |             |
|   |   | AGW (Inhalable fraction)      | 0,05 mg/m <sup>3</sup> | DE TRGS 900 |
|   | Peak-limit: excursion factor (category): 2; I   |                               |                        |             |
|   | Further information: Skin absorption, When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child                                   |                               |                        |             |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | 55965-84-9  | MAK (inhalable fraction)      | 0,2 mg/m <sup>3</sup>  | DE DFG MAK  |
|   | Further information: Danger of sensitization of the skin, Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed  |                               |                        |             |

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|----------------|---------|-----------------|--------------------------|-------|
|----------------|---------|-----------------|--------------------------|-------|

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|   |           |            |                            |                  |
|---|-----------|------------|----------------------------|------------------|
| 29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper   | Workers   | Inhalation | Long-term systemic effects | 4 mg/m3          |
|   | Workers   | Dermal     | Long-term systemic effects | 450 mg/kg bw/day |
|   | Consumers | Dermal     | Long-term systemic effects | 225 mg/kg bw/day |
|   | Consumers | Oral       | Long-term systemic effects | 45 mg/kg bw/day  |
| 1,2-benzisothiazol-3(2H)-one  | Workers   | Inhalation | Long-term systemic effects | 6,81 mg/m3       |
|   | Workers   | Dermal     | Long-term systemic effects | 0,966 mg/kg      |
|   | Consumers | Inhalation | Long-term systemic effects | 1,2 mg/m3        |
|   | Consumers | Dermal     | Long-term systemic effects | 0,345 mg/kg      |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | Workers   | Inhalation | Long-term local effects    | 0,02 mg/m3       |
|   | Workers   | Inhalation | Acute local effects        | 0,04 mg/m3       |
|   | Consumers | Inhalation | Long-term local effects    | 0,02 mg/m3       |
|   | Consumers | Inhalation | Acute local effects        | 0,04 mg/m3       |
|   | Consumers | Oral       | Long-term systemic effects | 0,09 mg/kg       |
|   | Consumers | Oral       | Acute systemic effects     | 0,11 mg/kg       |

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name  | Environmental Compartment | Value                      |
|---|---------------------------|----------------------------|
| 29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper   | Fresh water sediment      | 10 mg/kg dry weight (d.w.) |
|   | Marine sediment           | 1 mg/kg dry weight (d.w.)  |
|   | Soil                      | 1 mg/kg dry weight (d.w.)  |
| 1,2-benzisothiazol-3(2H)-one  | Fresh water               | 0,00403 mg/l               |
|   | Marine water              | 0,000403 mg/l              |
|   | Sewage treatment plant    | 1,03 mg/l                  |
|   | Fresh water sediment      | 0,0499 mg/l                |
|   | Marine sediment           | 0,00499 mg/l               |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | Fresh water               | 0,00339 mg/l               |
|   | Intermittent use/release  | 0,00339 mg/l               |
|   | Marine water              | 0,00339 mg/l               |
|   | Sewage treatment plant    | 0,23 mg/l                  |

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|  |                      |             |
|--|----------------------|-------------|
|  | Fresh water sediment | 0,027 mg/kg |
|  | Marine sediment      | 0,027 mg/kg |

### 8.2 Exposure controls

#### Personal protective equipment

- Eye/face protection : Eye wash bottle with pure water  
Tightly fitting safety goggles
- Hand protection  
Material : Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber.
- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Skin and body protection : Protective suit  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection : In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.
- Protective measures : Plan first aid action before beginning work with this product.  
Always have on hand a first-aid kit, together with proper instructions.  
Wear suitable protective equipment.  
When using do not eat, drink or smoke.
- In the context of professional plant protection use as recommended, the end user must refer to the label and the instructions for use.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Physical state : liquid
- Colour : blue
- Odour : No data available
- Melting point/freezing point : No data available
- Boiling point/boiling range : > 100 °C
- Upper explosion limit / Upper flammability limit : No data available
- Lower explosion limit / Lower flammability limit : No data available
- Flash point : No data available
- Auto-ignition temperature : No data available
- Decomposition temperature : No data available
- pH : ca. 8 (20 °C)
- Viscosity
- Viscosity, kinematic : No data available
- Solubility(ies)

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|  |   |  |
|--|---|--|
| Water solubility                       | : | dispersible  |
| Partition coefficient: n-octanol/water | : | Not available for this mixture.  |
| Vapour pressure                        | : | Not available for this mixture.  |
| Density                                | : | ca. 1,16 g/cm <sup>3</sup> (20 °C)   |
| Relative vapour density                | : | No data available  |
| Particle characteristics Assessment    | : | This substance/ mixture contains nanoforms (according to REACH Regulation) |
| Particle size                          | : | Further particle properties for nanomaterials see section 3                |

### 9.2 Other information

|                        |   |                   |
|------------------------|---|-------------------|
| Explosives             | : | Not explosive     |
| Oxidizing properties   | : | Non-oxidizing     |
| Flammability (liquids) | : | No data available |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

|                     |   |  |
|---------------------|---|--|
| Hazardous reactions | : | Stable under recommended storage conditions. |
|---------------------|---|--|

### 10.4 Conditions to avoid

|                     |   |  |
|---------------------|---|--|
| Conditions to avoid | : | Protect from frost, heat and sunlight. |
|---------------------|---|--|

### 10.5 Incompatible materials

|                    |   |  |
|--------------------|---|--|
| Materials to avoid | : | Avoid strong acids, bases, and oxidizers |
|--------------------|---|--|

### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

## SECTION 11: Toxicological information

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

#### Acute toxicity

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

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### Components:

#### **Tristyrylphenol ethoxylates:**

|                       |   |  |
|-----------------------|---|--|
| Acute oral toxicity   | : | LD50 (Rat, male and female): > 5.000 mg/kg<br>Method: OECD Test Guideline 401<br>Remarks: Based on data from similar materials                     |
| Acute dermal toxicity | : | LD50 (Rat, male and female): > 2.000 mg/kg<br>Method: OECD Test Guideline 402<br>Assessment: The substance or mixture has no acute dermal toxicity |

#### **octhilinone (ISO):**

|                           |   |  |
|---------------------------|---|--|
| Acute oral toxicity       | : | Acute toxicity estimate: 125 mg/kg<br>Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008                               |
| Acute inhalation toxicity | : | Acute toxicity estimate: 0,27 mg/l<br>Test atmosphere: dust/mist<br>Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008 |
| Acute dermal toxicity     | : | Acute toxicity estimate: 311 mg/kg<br>Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008                               |

#### **1,2-benzisothiazol-3(2H)-one:**

|                           |   |   |
|---------------------------|---|---|
| Acute oral toxicity       | : | LD50 (Rat, male and female): 490 mg/kg<br>Method: OECD Test Guideline 401<br><br>Acute toxicity estimate: 450 mg/kg<br>Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008<br>Remarks: Based on EU Harmonised classification - Annex VI of Regulation (EC) No 1272/2008 (CLP Regulation) |
| Acute inhalation toxicity | : | Acute toxicity estimate: 0,21 mg/l<br>Test atmosphere: dust/mist<br>Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008<br>Remarks: Based on EU Harmonised classification - Annex VI of Regulation (EC) No 1272/2008 (CLP Regulation)  |
| Acute dermal toxicity     | : | LD50 (Rat, male and female): > 2.000 mg/kg<br>Method: OECD Test Guideline 402<br>Assessment: The substance or mixture has no acute dermal toxicity  |

#### **2-methylisothiazol-3(2H)-one:**

|                     |   |   |
|---------------------|---|---|
| Acute oral toxicity | : | LD50 (Rat, male): 232 - 249 mg/kg<br>Method: OPPTS 870.1100 |
|---------------------|---|---|

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LD50 (Rat, female): 120 mg/kg  
Method: OPPTS 870.1100

Acute inhalation toxicity : LC50 (Rat, male and female): 0,11 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat, male and female): 242 mg/kg  
Method: OECD Test Guideline 402

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

Acute oral toxicity : LD50 Oral (Rat, female): 200 mg/kg  
Method: OECD Test Guideline 423

Acute inhalation toxicity : LC50 (Rat, male and female): 0,33 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Assessment: Corrosive to the respiratory tract.

Acute dermal toxicity : LD50 (Rabbit, male): 87 mg/kg

### Skin corrosion/irritation

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

### Components:

#### Tristyrylphenol ethoxylates:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

#### 1,2-benzisothiazol-3(2H)-one:

Species : Rabbit  
Exposure time : 72 h  
Method : OECD Test Guideline 404  
Result : No skin irritation

#### 2-methylisothiazol-3(2H)-one:

Species : Rabbit  
Exposure time : 4 h  
Method : OECD Test Guideline 404  
Result : Corrosive after 4 hours or less of exposure

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

Method : OECD Test Guideline 404

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Result : Corrosive after 1 to 4 hours of exposure

### Serious eye damage/eye irritation

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

#### Components:

##### Tristyrylphenol ethoxylates:

|         |                           |
|---------|---------------------------|
| Species | : Rabbit                  |
| Method  | : OECD Test Guideline 405 |
| Result  | : No eye irritation       |

##### 1,2-benzisothiazol-3(2H)-one:

|         |                           |
|---------|---------------------------|
| Species | : Bovine cornea           |
| Method  | : OECD Test Guideline 437 |
| Result  | : No eye irritation       |

|         |                                   |
|---------|-----------------------------------|
| Species | : Rabbit                          |
| Method  | : EPA OPP 81-4                    |
| Result  | : Irreversible effects on the eye |

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

Result : Irreversible effects on the eye

### Respiratory or skin sensitisation

#### Skin sensitisation

May cause an allergic skin reaction.

#### Respiratory sensitisation

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

#### Components:

##### 1,2-benzisothiazol-3(2H)-one:

|           |  |
|-----------|--|
| Test Type | : Maximisation Test                        |
| Species   | : Guinea pig                               |
| Method    | : OECD Test Guideline 406                  |
| Result    | : May cause sensitisation by skin contact. |

|         |  |
|---------|--|
| Species | : Guinea pig                               |
| Method  | : FIFRA 81.06                              |
| Result  | : May cause sensitisation by skin contact. |

##### 2-methylisothiazol-3(2H)-one:

|                 |                              |
|-----------------|------------------------------|
| Test Type       | : Buehler Test               |
| Exposure routes | : Skin contact               |
| Species         | : Guinea pig                 |
| Method          | : Buehler Test               |
| Result          | : Causes skin sensitization. |

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Test Type : Local lymph node assay (LLNA)  
Exposure routes : Skin contact  
Species : Mouse  
Result : Causes skin sensitization.

Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Causes skin sensitization.

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

Test Type : Local lymph node assay (LLNA)  
Species : Mouse  
Result : The product is a skin sensitizer, sub-category 1A.

### Germ cell mutagenicity

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

### Components:

#### Tristyrylphenol ethoxylates:

Genotoxicity in vitro : Test Type: reverse mutation assay  
Method: OECD Test Guideline 471  
Result: negative

Genotoxicity in vivo : Remarks: No data available

#### 1,2-benzisothiazol-3(2H)-one:

Genotoxicity in vitro : Test Type: gene mutation test  
Test system: mouse lymphoma cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

Test Type: Ames test  
Method: OECD Test Guideline 471  
Result: negative

Test Type: Chromosome aberration test in vitro  
Method: OECD Test Guideline 473  
Result: positive

Genotoxicity in vivo : Test Type: unscheduled DNA synthesis assay  
Species: Rat (male)  
Cell type: Liver cells  
Application Route: Ingestion  
Exposure time: 4 h  
Method: OECD Test Guideline 486  
Result: negative



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Test Type: Micronucleus test  
Species: Mouse  
Application Route: Oral  
Method: OECD Test Guideline 474  
Result: negative

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

### 2-methylisothiazol-3(2H)-one:

Genotoxicity in vitro : Test Type: reverse mutation assay  
Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)  
Result: negative

Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster ovary cells  
Method: OECD Test Guideline 473  
Result: equivocal

Test Type: gene mutation test  
Test system: Chinese hamster ovary cells  
Method: OECD Test Guideline 476  
Result: negative

Test Type: Chromosome aberration test in vitro  
Test system: Human lymphocytes  
Method: OECD Test Guideline 473  
Result: negative

Genotoxicity in vivo : Test Type: unscheduled DNA synthesis assay  
Species: Rat (male)  
Application Route: Oral  
Method: OECD Test Guideline 486  
Result: negative

Test Type: Micronucleus test  
Species: Mouse (male and female)  
Application Route: Oral  
Method: OECD Test Guideline 474  
Result: negative

### Carcinogenicity

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

### Reproductive toxicity

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

### Components:

1,2-benzisothiazol-3(2H)-one:

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Effects on fertility : Species: Rat, male  
Application Route: Ingestion  
General Toxicity - Parent: NOAEL: 18,5 mg/kg body weight  
General Toxicity F1: NOAEL: 48 mg/kg body weight  
Fertility: NOAEL: 112 mg/kg bw/day  
Symptoms: No effects on reproduction parameters  
Method: OPPTS 870.3800  
Result: negative

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

### STOT - single exposure

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

### STOT - repeated exposure

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

### Components:

#### 1,2-benzisothiazol-3(2H)-one:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### Repeated dose toxicity

### Components:

#### 1,2-benzisothiazol-3(2H)-one:

Species : Rat, male and female  
NOAEL : 15 mg/kg  
Application Route : Ingestion  
Exposure time : 28 d  
Method : OECD Test Guideline 407  
Symptoms : Irritation

Species : Rat, male and female  
NOAEL : 69 mg/kg  
Application Route : Ingestion  
Exposure time : 90 d  
Symptoms : Irritation, Reduced body weight

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

Species : Dog  
NOAEL : 22 mg/kg  
Application Route : Oral

Species : Rat  
NOAEL : 16,3 - 24,7 mg/kg  
Application Route : Skin contact

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|                   |   |                        |
|-------------------|---|------------------------|
| Species           | : | Rat                    |
| NOAEL             | : | 2.36 mg/m <sup>3</sup> |
| Application Route | : | Inhalation             |

### Aspiration toxicity

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

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

|            |   |   |
|------------|---|---|
| Assessment | : | The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. |
|------------|---|---|

### Further information

#### Product:

|         |   |                   |
|---------|---|-------------------|
| Remarks | : | No data available |
|---------|---|-------------------|

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### Tristyrylphenol ethoxylates:

|                  |   |   |
|------------------|---|---|
| Toxicity to fish | : | LC50 (Brachydanio rerio (zebrafish)): 21 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203 |
|------------------|---|---|

|                            |   |                            |
|----------------------------|---|----------------------------|
| Toxicity to microorganisms | : | Remarks: No data available |
|----------------------------|---|----------------------------|

##### octhilinone (ISO):

|                                   |   |     |
|-----------------------------------|---|-----|
| M-Factor (Acute aquatic toxicity) | : | 100 |
|-----------------------------------|---|-----|

|                                     |   |     |
|-------------------------------------|---|-----|
| M-Factor (Chronic aquatic toxicity) | : | 100 |
|-------------------------------------|---|-----|

##### 1,2-benzisothiazol-3(2H)-one:

|                  |   |  |
|------------------|---|--|
| Toxicity to fish | : | LC50 (Cyprinodon variegatus (sheepshead minnow)): 16,7 mg/l<br>Exposure time: 96 h<br>Test Type: static test |
|------------------|---|--|

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- LC50 (Oncorhynchus mykiss (rainbow trout)): 2,15 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2,9 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 0,070 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201
- NOEC (Pseudokirchneriella subcapitata (green algae)): 0,04 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201
- M-Factor (Acute aquatic toxicity) : 1
- Toxicity to microorganisms : EC50 (activated sludge): 24 mg/l  
Exposure time: 3 h  
Test Type: Respiration inhibition  
Method: OECD Test Guideline 209
- EC50 (activated sludge): 12,8 mg/l  
Exposure time: 3 h  
Test Type: Respiration inhibition  
Method: OECD Test Guideline 209
- M-Factor (Chronic aquatic toxicity) : 1
- 2-methylisothiazol-3(2H)-one:**
- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4,77 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 0,934 mg/l  
Exposure time: 48 h  
Test Type: flow-through test  
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 0,138 mg/l  
Exposure time: 120 h  
Test Type: static test  
Method: OECD Test Guideline 201

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NOEC (Pseudokirchneriella subcapitata (green algae)): 0,050 mg/l  
Exposure time: 120 h  
Test Type: static test  
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 10

Toxicity to microorganisms : EC50 (activated sludge): 41 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

Toxicity to fish (Chronic toxicity) : NOEC: 2,38 mg/l  
Exposure time: 98 d  
Species: Oncorhynchus mykiss (rainbow trout)  
Method: OECD Test Guideline 210

LOEC: 4,93 mg/l  
Exposure time: 98 d  
Species: Oncorhynchus mykiss (rainbow trout)  
Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,044 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: flow-through test  
Method: OECD Test Guideline 211

LOEC: 0,089 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: flow-through test  
Method: OECD Test Guideline 211

M-Factor (Chronic aquatic toxicity) : 1

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

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,19 mg/l  
Exposure time: 96 h  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,16 mg/l  
Exposure time: 48 h

NOEC (Daphnia magna (Water flea)): 0,1 mg/l  
Exposure time: 21 d

EC50 (Daphnia magna (Water flea)): 0,18 mg/l  
Exposure time: 21 d

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|  |   |
|--|---|
| Toxicity to algae/aquatic plants                                       | : NOEC (Skeletonema costatum (marine diatom)): 0,00049 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 201<br><br>NOEC (Skeletonema costatum (marine diatom)): 0,019 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br><br>EC50 (Skeletonema costatum (marine diatom)): 0,037 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 201 |
| M-Factor (Acute aquatic toxicity)                                      | : 100   |
| Toxicity to microorganisms   | : NOEC (activated sludge): 0,91 mg/l<br>Exposure time: 3 h<br>Method: OECD Test Guideline 209<br>GLP: yes<br><br>EC50 (activated sludge): 4,5 mg/l<br>Exposure time: 3 h<br>Method: OECD Test Guideline 209<br>GLP: yes   |
| Toxicity to fish (Chronic toxicity)                                    | : NOEC: 0,02 mg/l<br>Exposure time: 35 d<br>Species: Danio rerio (zebra fish)<br>Method: OECD Test Guideline 210<br>GLP: yes  |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : NOEC: 0,1 mg/l<br>Exposure time: 21 d<br>Species: Daphnia magna (Water flea)<br><br>Chronic Toxicity Value: 0,18 mg/l<br>Exposure time: 21 d<br>Species: Daphnia magna (Water flea)   |
| M-Factor (Chronic aquatic toxicity)                                    | : 100   |

### 12.2 Persistence and degradability

#### Components:

#### **Tristyrylphenol ethoxylates:**

|                  |   |
|------------------|---|
| Biodegradability | : Result: Not readily biodegradable.<br>Biodegradation: 8 %<br>Exposure time: 28 d<br>Method: OECD Test Guideline 301 |
|------------------|---|

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### 1,2-benzisothiazol-3(2H)-one:

Biodegradability : Result: rapidly biodegradable  
Method: OECD Test Guideline 301C

### 2-methylisothiazol-3(2H)-one:

Biodegradability : Biodegradation: 50 %  
Exposure time: 29 d

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

Biodegradability : Result: Readily biodegradable.

## 12.3 Bioaccumulative potential

### Components:

#### Tristyrylphenol ethoxylates:

Partition coefficient: n-octanol/water : Remarks: No data available

#### 1,2-benzisothiazol-3(2H)-one:

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)  
Exposure time: 56 d  
Bioconcentration factor (BCF): 6,62  
Method: OECD Test Guideline 305  
Remarks: Substance is not persistent, bioaccumulative, and toxic (PBT).

Partition coefficient: n-octanol/water : log Pow: 0,7 (20 °C)  
pH: 7

log Pow: 0,99 (20 °C)  
pH: 5

#### 2-methylisothiazol-3(2H)-one:

Bioaccumulation : Exposure time: 5 d  
Bioconcentration factor (BCF): 48,1

Partition coefficient: n-octanol/water : log Pow: -0,486 (20 °C)

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

Bioaccumulation : Exposure time: 28 d  
Bioconcentration factor (BCF): < 54  
Method: OECD Test Guideline 305

Partition coefficient: n-octanol/water : Pow: 0,75

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### 12.4 Mobility in soil

#### Components:

##### **1,2-benzisothiazol-3(2H)-one:**

Distribution among environmental compartments : Koc: 9,33 ml/g, log Koc: 0,97  
Method: OECD Test Guideline 121  
Remarks: Highly mobile in soils

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

#### Product:

Additional ecological information : No data available

---

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

|                        |   |
|------------------------|---|
| Product                | : The product should not be allowed to enter drains, water courses or the soil.<br>Do not contaminate ponds, waterways or ditches with chemical or used container.<br>Send to a licensed waste management company.                                    |
| Contaminated packaging | : Empty remaining contents.<br>Do not re-use empty containers.<br>Packaging that is not properly emptied must be disposed of as the unused product.<br>Empty containers should be taken to an approved waste handling site for recycling or disposal. |



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### SECTION 14: Transport information

#### 14.1 UN number or ID number

|      |                                     |
|------|-------------------------------------|
| ADN  | : Not regulated as a dangerous good |
| ADR  | : Not regulated as a dangerous good |
| RID  | : Not regulated as a dangerous good |
| IMDG | : Not regulated as a dangerous good |
| IATA | : Not regulated as a dangerous good |

#### 14.2 UN proper shipping name

|      |                                     |
|------|-------------------------------------|
| ADN  | : Not regulated as a dangerous good |
| ADR  | : Not regulated as a dangerous good |
| RID  | : Not regulated as a dangerous good |
| IMDG | : Not regulated as a dangerous good |
| IATA | : Not regulated as a dangerous good |

#### 14.3 Transport hazard class(es)

|      |                                     |
|------|-------------------------------------|
| ADN  | : Not regulated as a dangerous good |
| ADR  | : Not regulated as a dangerous good |
| RID  | : Not regulated as a dangerous good |
| IMDG | : Not regulated as a dangerous good |
| IATA | : Not regulated as a dangerous good |

#### 14.4 Packing group

|                  |                                     |
|------------------|-------------------------------------|
| ADN              | : Not regulated as a dangerous good |
| ADR              | : Not regulated as a dangerous good |
| RID              | : Not regulated as a dangerous good |
| IMDG             | : Not regulated as a dangerous good |
| IATA (Cargo)     | : Not regulated as a dangerous good |
| IATA (Passenger) | : Not regulated as a dangerous good |

#### 14.5 Environmental hazards

Not regulated as a dangerous good

#### 14.6 Special precautions for user

|         |  |
|---------|--|
| Remarks | : Not classified as dangerous in the meaning of transport regulations. |
|---------|--|

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

Not applicable for product as supplied.

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### SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list 75, 3

If you intend to use this product as tattoo ink, please contact your vendor.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : Not applicable

Water hazard class (Germany) : WGK 2 obviously hazardous to water  
Classification according to AwSV, Annex 1 (5.2)

TA Luft List (Germany) : 5.2.1: Total dust:  
Not applicable  
5.2.2: Inorganic substances in powdered form:  
Not applicable  
5.2.4: Inorganic substances in gaseous form:  
Not applicable  
5.2.5: Organic Substances:  
Not applicable  
5.2.7.1.1: Carcinogenic substance:  
Not applicable  
5.2.7.1.1: Quartz fine dust PM4:  
Not applicable  
5.2.7.1.1: Formaldehyde:  
Not applicable  
5.2.7.1.1: fibres:

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|                |                              |                         |  |
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Not applicable  
5.2.7.1.2: Germ cell mutagens:  
Not applicable  
5.2.7.1.3: Substances toxic to reproduction:  
Not applicable  
5.2.7.2: Poorly degradable, easily enrichable and highly toxic organic substances:  
Not applicable

### Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

### The components of this product are reported in the following inventories:

|       |   |
|-------|---|
| TCSI  | : On the inventory, or in compliance with the inventory   |
| TSCA  | : Product contains substance(s) not listed on TSCA inventory.   |
| AIIC  | : Not in compliance with the inventory  |
| DSL   | : This product contains the following components listed on the Canadian NDSL. All other components are on the Canadian DSL.<br><br>2,2-dibromo-2-cyanoacetamide |
| ENCS  | : Not in compliance with the inventory  |
| ISHL  | : Not in compliance with the inventory  |
| KECI  | : On the inventory, or in compliance with the inventory   |
| PICCS | : Not in compliance with the inventory  |
| IECSC | : On the inventory, or in compliance with the inventory   |
| NZIoC | : Not in compliance with the inventory  |
| TECI  | : On the inventory, or in compliance with the inventory   |

### 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture.

## SECTION 16: Other information

### Full text of H-Statements

H301 : Toxic if swallowed.

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|        |   |
|--------|---|
| H302   | : Harmful if swallowed.                                 |
| H310   | : Fatal in contact with skin.                           |
| H311   | : Toxic in contact with skin.                           |
| H314   | : Causes severe skin burns and eye damage.              |
| H315   | : Causes skin irritation.                               |
| H317   | : May cause an allergic skin reaction.                  |
| H318   | : Causes serious eye damage.                            |
| H330   | : Fatal if inhaled.                                     |
| H400   | : Very toxic to aquatic life.                           |
| H410   | : Very toxic to aquatic life with long lasting effects. |
| H412   | : Harmful to aquatic life with long lasting effects.    |
| EUH071 | : Corrosive to the respiratory tract.                   |

### Full text of other abbreviations

|                   |   |
|-------------------|---|
| Acute Tox.        | : Acute toxicity  |
| Aquatic Acute     | : Short-term (acute) aquatic hazard                       |
| Aquatic Chronic   | : Long-term (chronic) aquatic hazard                      |
| Eye Dam.          | : Serious eye damage                                      |
| Skin Corr.        | : Skin corrosion  |
| Skin Irrit.       | : Skin irritation   |
| Skin Sens.        | : Skin sensitisation                                      |
| DE DFG MAK        | : Germany. MAK BAT Annex IIa                              |
| DE TRGS 900       | : Germany. TRGS 900 - Occupational exposure limit values. |
| DE DFG MAK / MAK  | : MAK value   |
| DE TRGS 900 / AGW | : Time Weighted Average                                   |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous

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Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

|                   |      |
|-------------------|------|
| Skin Sens. 1      | H317 |
| Aquatic Chronic 3 | H412 |

#### Classification procedure:

|                    |
|--------------------|
| Calculation method |
| Calculation method |

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