



## Comfort Professional Concentrated Blue Skies

Revision: 2022-12-10

Version: 17.1

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

#### 1.1 Product identifier

**Trade name:** Comfort Professional Concentrated Blue Skies

UFI: AJ13-10H3-T00S-081T

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

**Product use:** Laundry conditioner.

**Uses advised against:** Uses other than those identified are not recommended.

#### SWED - Sector-specific worker exposure description :

AISE\_SWED\_PW\_8a\_2

AISE\_SWED\_PW\_8b\_2

PC35-Washing and cleaning products

AISE\_SWED\_PW\_1\_1

AISE\_SWED\_PW\_4\_1

AISE\_SWED\_PW\_19\_1

PC35-Washing and cleaning products

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

Diversey Europe Operations BV, Maarssenbroeksedijk 2, 3542DN Utrecht, The Netherlands

Tel: 01 8081808 (9am - 5pm Mon-Fri)

Email: dublin.orders@diversey.com

#### 1.4 Emergency telephone number

Seek medical advice (show the label or safety data sheet where possible).

National Poisons Information Centre

Tel: 01 809 2166. (8.00 a.m. to 10.00 p.m. 7 days a week)

Tel: 01 809 2566 (health care professionals).

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Not classified as hazardous

#### 2.2 Label elements

Contains 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione (DMDM Hydantoin)

#### Hazard statements:

EUH208 - May produce an allergic reaction.

#### Precautionary statements:

P102 - Keep out of reach of children.

#### Further indications on the label:

Contains: preservative.

#### 2.3 Other hazards

No other hazards known.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

| Ingredient(s)   | EC number | CAS number | REACH number | Classification                              | Notes | Weight percent |
|---|-----------|------------|--------------|---|-------|----------------|
| fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | 295-344-3 | 91995-81-2 | -            | Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319) |       | 3-10           |

## Comfort Professional Concentrated Blue Skies

|  |           |             |                  |                             |      |        |
|--|-----------|-------------|------------------|-----------------------------|------|--------|
| 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione | 229-222-8 | 6440-58-0   | 01-2119976015-37 | Acute Tox. 4 (H302)         |      | 0.1-1  |
| Silica, amorphous, fumed, crystalline-free                 | 601-216-3 | 112945-52-5 | -                | Not classified as hazardous | [12] | < 0.01 |

Workplace exposure limit(s), if available, are listed in subsection 8.1.

ATE, if available, are listed in section 11.

[6] Exempted: biocidal active. See Article 15(2) of Regulation (EC) No 1907/2006.

[12] nanoform.

For the full text of the H and EUH phrases mentioned in this Section, see Section 16..

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

|  |   |
|--|---|
| <b>Inhalation:</b>                     | Get medical attention or advice if you feel unwell.   |
| <b>Skin contact:</b>                   | Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice or attention.  |
| <b>Eye contact:</b>                    | Rinse cautiously with water for several minutes. If irritation occurs and persists, get medical attention.  |
| <b>Ingestion:</b>                      | Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Get medical attention or advice if you feel unwell. |
| <b>Self-protection of first aider:</b> | Consider personal protective equipment as indicated in subsection 8.2.  |

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

|                      |   |
|----------------------|---|
| <b>Inhalation:</b>   | No known effects or symptoms in normal use. |
| <b>Skin contact:</b> | No known effects or symptoms in normal use. |
| <b>Eye contact:</b>  | No known effects or symptoms in normal use. |
| <b>Ingestion:</b>    | No known effects or symptoms in normal use. |

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

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

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

No special hazards known.

### 5.3 Advice for firefighters

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

## SECTION 6: Accidental release measures

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

No special measures required.

### 6.2 Environmental precautions

Dilute with plenty of water. Do not allow to enter drainage system, surface or ground water.

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

Dyke to collect large liquid spills. Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust). Do not place spilled materials back into the original container. Collect in closed and suitable containers for disposal.

### 6.4 Reference to other sections

For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Measures to prevent fire and explosions:

No special precautions required.

#### Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

#### Advices on general occupational hygiene:

Follow general hygiene considerations recognised as common good workplace practices. Keep away from food, drink and animal feeding stuffs. Keep out of reach of children. Do not mix with other products unless advised by Diversey. Wash hands thoroughly after handling.

## Comfort Professional Concentrated Blue Skies

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

Store in accordance with local and national regulations. Keep only in original packaging. Keep out of reach of children. For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

**7.3 Specific end use(s)**

No specific advice for end use available.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Workplace exposure limits**

Air limit values, if available:

| Ingredient(s)                              | Long term value(s)  | Short term value(s)   |
|--|---|---|
| Silica, amorphous, fumed, crystalline-free | 6 mg/m <sup>3</sup> total inhalable dust<br>2.4 mg/m <sup>3</sup> respirable dust | 18 mg/m <sup>3</sup> respirable dust<br>7.2 mg/m <sup>3</sup> respirable dust |

Biological limit values, if available:

Recommended monitoring procedures, if available:

Additional exposure limits under the conditions of use, if available:

**DNEL/DMEL and PNEC values****Human exposure**

DNEL/DMEL oral exposure - Consumer (mg/kg bw)

| Ingredient(s)   | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|---|----------------------------|-------------------------------|---------------------------|------------------------------|
| fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | No data available          | No data available             | No data available         | No data available            |
| 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione  | -                          | -                             | -                         | 10                           |
| Silica, amorphous, fumed, crystalline-free  | No data available          | No data available             | No data available         | No data available            |

DNEL/DMEL dermal exposure - Worker

| Ingredient(s)   | Short term - Local effects | Short term - Systemic effects (mg/kg bw) | Long term - Local effects | Long term - Systemic effects (mg/kg bw) |
|---|----------------------------|--|---------------------------|---|
| fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | No data available          | No data available                        | No data available         | No data available                       |
| 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione  | No data available          | -  | No data available         | 20                                      |
| Silica, amorphous, fumed, crystalline-free  | No data available          | No data available                        | No data available         | No data available                       |

DNEL/DMEL dermal exposure - Consumer

| Ingredient(s)   | Short term - Local effects | Short term - Systemic effects (mg/kg bw) | Long term - Local effects | Long term - Systemic effects (mg/kg bw) |
|---|----------------------------|--|---------------------------|---|
| fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | No data available          | No data available                        | No data available         | No data available                       |
| 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione  | No data available          | -  | No data available         | 10                                      |
| Silica, amorphous, fumed, crystalline-free  | No data available          | No data available                        | No data available         | No data available                       |

DNEL/DMEL inhalatory exposure - Worker (mg/m<sup>3</sup>)

| Ingredient(s)   | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|---|----------------------------|-------------------------------|---------------------------|------------------------------|
| fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | No data available          | No data available             | No data available         | No data available            |
| 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione  | -                          | -                             | -                         | 70.6                         |
| Silica, amorphous, fumed, crystalline-free  | No data available          | No data available             | No data available         | No data available            |

DNEL/DMEL inhalatory exposure - Consumer (mg/m<sup>3</sup>)

| Ingredient(s)   | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|---|----------------------------|-------------------------------|---------------------------|------------------------------|
| fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | No data available          | No data available             | No data available         | No data available            |
| 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione  | -                          | -                             | -                         | 17.4                         |
| Silica, amorphous, fumed, crystalline-free  | No data available          | No data available             | No data available         | No data available            |

**Environmental exposure**

Environmental exposure - PNEC

| Ingredient(s) | Surface water, fresh | Surface water, marine | Intermittent (mg/l) | Sewage treatment |
|---------------|----------------------|-----------------------|---------------------|------------------|
|               |                      |                       |                     |                  |

## Comfort Professional Concentrated Blue Skies

|   | (mg/l)            | (mg/l)            |                   | plant (mg/l)      |
|---|-------------------|-------------------|-------------------|-------------------|
| fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | No data available | No data available | No data available | No data available |
| 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione  | 0.51              | 0.051             | 0.11              | 10                |
| Silica, amorphous, fumed, crystalline-free  | No data available | No data available | No data available | No data available |

Environmental exposure - PNEC, continued

| Ingredient(s)   | Sediment, freshwater (mg/kg) | Sediment, marine (mg/kg) | Soil (mg/kg)      | Air (mg/m <sup>3</sup> ) |
|---|------------------------------|--------------------------|-------------------|--------------------------|
| fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | No data available            | No data available        | No data available | No data available        |
| 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione  | -                            | -                        | -                 | -                        |
| Silica, amorphous, fumed, crystalline-free  | No data available            | No data available        | No data available | No data available        |

**8.2 Exposure controls**

The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet. If available, please refer to the product information sheet for application and handling instructions. Normal use conditions are assumed for this section.

Recommended safety measures for handling the undiluted product:

**Appropriate engineering controls:** No special requirements under normal use conditions.  
**Appropriate organisational controls:** No special requirements under normal use conditions.

**REACH use scenarios considered for the undiluted product:**

|                                    | SWED - Sector-specific worker exposure description | LCS | PROC    | Duration (min) | ERC   |
|------------------------------------|--|-----|---------|----------------|-------|
| PC35-Washing and cleaning products | PC35-Washing and cleaning products                 | C   | -       | -              | ERC8a |
| Manual transfer and dilution       | AISE_SWED_PW_8a_2                                  | PW  | PROC 8a | 60             | ERC8a |
| Automatic transfer and dilution    | AISE_SWED_PW_8b_2                                  | PW  | PROC 8b | 60             | ERC8b |

**Personal protective equipment****Eye / face protection:**

Safety glasses are not normally required. However, their use is recommended in those cases where splashes may occur when handling the product (EN 166).

**Hand protection:**

No special requirements under normal use conditions.

**Body protection:**

No special requirements under normal use conditions.

**Respiratory protection:**

No special requirements under normal use conditions.

**Environmental exposure controls:** No special requirements under normal use conditions.

Recommended safety measures for handling the diluted product:

**Recommended maximum concentration (% w/w):** 0.7

**Appropriate engineering controls:** No special requirements under normal use conditions.  
**Appropriate organisational controls:** No special requirements under normal use conditions.

**REACH use scenarios considered for the diluted product:**

|  | SWED                               | LCS | PROC    | Duration (min) | ERC   |
|--|------------------------------------|-----|---------|----------------|-------|
| PC35-Washing and cleaning products                 | PC35-Washing and cleaning products | C   | -       | -              | ERC8a |
| Automatic application in a dedicated closed system | AISE_SWED_PW_1_1                   | PW  | PROC 1  | 480            | ERC8a |
| Manual application                                 | AISE_SWED_PW_19_1                  | PW  | PROC 19 | 480            | ERC8a |
| Automatic application in a dedicated system        | AISE_SWED_PW_4_1                   | PW  | PROC 4  | 480            | ERC8a |

**Personal protective equipment****Eye / face protection:**

No special requirements under normal use conditions.

**Hand protection:**

No special requirements under normal use conditions.

**Body protection:**

No special requirements under normal use conditions.

**Respiratory protection:**

No special requirements under normal use conditions.

**Environmental exposure controls:** No special requirements under normal use conditions.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

## Comfort Professional Concentrated Blue Skies

Information in this section refers to the product, unless it is specifically stated that substance data is listed

**Physical state:** Liquid

**Colour:** Opaque , Blue

**Odour:** Product specific

**Odour threshold:** Not applicable

**Melting point/freezing point (°C):** Not determined

**Initial boiling point and boiling range (°C):** Not determined

**Method / remark**

Not relevant to classification of this product

See substance data

Substance data, boiling point

| Ingredient(s)   | Value (°C)        | Method | Atmospheric pressure (hPa) |
|---|-------------------|--------|----------------------------|
| fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | No data available |        |                            |
| 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione  | No data available |        |                            |
| Silica, amorphous, fumed, crystalline-free  | No data available |        |                            |

**Method / remark**

**Flammability (solid, gas):** Not applicable to liquids

**Flammability (liquid):** Not flammable.

**Flash point (°C):** Not applicable.

**Sustained combustion:** Not applicable.

( UN Manual of Tests and Criteria, section 32, L.2 )

**Lower and upper explosion limit/flammability limit (%):** Not determined

See substance data

Substance data, flammability or explosive limits, if available:

**Method / remark**

**Autoignition temperature:** Not determined

**Decomposition temperature:** Not applicable.

**pH:** ≈ 3 (neat)

**Kinematic viscosity:** ≈ 35 mPa.s (20 °C)

**Solubility in / Miscibility with water:** Fully miscible

ISO 4316

Substance data, solubility in water

| Ingredient(s)   | Value (g/l)       | Method | Temperature (°C) |
|---|-------------------|--------|------------------|
| fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | No data available |        |                  |
| 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione  | No data available |        |                  |
| Silica, amorphous, fumed, crystalline-free  | No data available |        |                  |

Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

**Method / remark**

**Vapour pressure:** Not determined

See substance data

Substance data, vapour pressure

| Ingredient(s)   | Value (Pa)        | Method | Temperature (°C) |
|---|-------------------|--------|------------------|
| fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | No data available |        |                  |
| 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione  | No data available |        |                  |
| Silica, amorphous, fumed, crystalline-free  | No data available |        |                  |

**Method / remark**

**Relative density:** ≈ 1.00 (20 °C)

**Relative vapour density:** No data available.

**Particle characteristics:** No data available.

OECD 109 (EU A.3)

Not relevant to classification of this product

Not applicable to liquids.

**9.2 Other information****9.2.1 Information with regard to physical hazard classes**

**Explosive properties:** Not explosive.

**Oxidising properties:** Not oxidising.

**Corrosion to metals:** Not corrosive

**9.2.2 Other safety characteristics**

No other relevant information available.

**SECTION 10: Stability and reactivity**

## Comfort Professional Concentrated Blue Skies

**10.1 Reactivity**

No reactivity hazards known under normal storage and use conditions.

**10.2 Chemical stability**

Stable under normal storage and use conditions.

**10.3 Possibility of hazardous reactions**

No hazardous reactions known under normal storage and use conditions.

**10.4 Conditions to avoid**

None known under normal storage and use conditions.

**10.5 Incompatible materials**

None known under normal use conditions.

**10.6 Hazardous decomposition products**

None known under normal storage and use conditions.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

Mixture data:

**Relevant calculated ATE(s):**

ATE - Oral (mg/kg): >2000

Substance data, where relevant and available, are listed below:

**Acute toxicity**

## Acute oral toxicity

| Ingredient(s)   | Endpoint         | Value (mg/kg)     | Species | Method  | Exposure time (h) | ATE (mg/kg)     |
|---|------------------|-------------------|---------|---|-------------------|-----------------|
| fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | LD <sub>50</sub> | > 5000            | Rat     | Method not given  |                   | Not established |
| 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione  | LD <sub>50</sub> | 1572              | Rat     | EPA OPP 81-1<br>Substance was tested as 55 % aqueous solution |                   | 1.4e+006        |
| Silica, amorphous, fumed, crystalline-free  |                  | No data available |         |   |                   | Not established |

## Acute dermal toxicity

| Ingredient(s)   | Endpoint         | Value (mg/kg)     | Species | Method  | Exposure time (h) | ATE (mg/kg)     |
|---|------------------|-------------------|---------|---|-------------------|-----------------|
| fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized |                  | No data available |         |   |                   | Not established |
| 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione  | LD <sub>50</sub> | > 1052            | Rabbit  | EPA OPP 81-2<br>Substance was tested as 52.6 % aqueous solution |                   | Not established |
| Silica, amorphous, fumed, crystalline-free  |                  | No data available |         |   |                   | Not established |

## Acute inhalative toxicity

| Ingredient(s)   | Endpoint | Value (mg/l)      | Species | Method | Exposure time (h) |
|---|----------|-------------------|---------|--------|-------------------|
| fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized |          | No data available |         |        |                   |
| 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione  |          | No data available |         |        |                   |
| Silica, amorphous, fumed, crystalline-free  |          | No data available |         |        |                   |

## Acute inhalative toxicity, continued

| Ingredient(s)   | ATE - inhalation, dust (mg/l) | ATE - inhalation, mist (mg/l) | ATE - inhalation, vapour (mg/l) | ATE - inhalation, gas (mg/l) |
|---|-------------------------------|-------------------------------|---------------------------------|------------------------------|
| fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | Not established               | Not established               | Not established                 | Not established              |
| 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione  | Not established               | Not established               | Not established                 | Not established              |
| Silica, amorphous, fumed, crystalline-free  | Not established               | Not established               | Not established                 | Not established              |

## Comfort Professional Concentrated Blue Skies

**Irritation and corrosivity**

## Skin irritation and corrosivity

| Ingredient(s)   | Result            | Species | Method       | Exposure time |
|---|-------------------|---------|--------------|---------------|
| fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | No data available |         |              |               |
| 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione  | Not irritant      | Rabbit  | EPA OPP 81-5 | 4 hour(s)     |
| Silica, amorphous, fumed, crystalline-free  | No data available |         |              |               |

## Eye irritation and corrosivity

| Ingredient(s)   | Result                    | Species | Method       | Exposure time |
|---|---------------------------|---------|--------------|---------------|
| fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | No data available         |         |              |               |
| 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione  | Not corrosive or irritant | Rabbit  | EPA OPP 81-4 |               |
| Silica, amorphous, fumed, crystalline-free  | No data available         |         |              |               |

## Respiratory tract irritation and corrosivity

| Ingredient(s)   | Result            | Species | Method | Exposure time |
|---|-------------------|---------|--------|---------------|
| fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | No data available |         |        |               |
| 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione  | No data available |         |        |               |
| Silica, amorphous, fumed, crystalline-free  | No data available |         |        |               |

**Sensitisation**

## Sensitisation by skin contact

| Ingredient(s)   | Result            | Species    | Method                   | Exposure time (h) |
|---|-------------------|------------|--------------------------|-------------------|
| fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | No data available |            |                          |                   |
| 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione  | Not sensitising   | Guinea pig | OECD 406 (EU B.6) / GPMT |                   |
| Silica, amorphous, fumed, crystalline-free  | No data available |            |                          |                   |

## Sensitisation by inhalation

| Ingredient(s)   | Result            | Species | Method | Exposure time |
|---|-------------------|---------|--------|---------------|
| fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | No data available |         |        |               |
| 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione  | No data available |         |        |               |
| Silica, amorphous, fumed, crystalline-free  | No data available |         |        |               |

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

## Mutagenicity

| Ingredient(s)   | Result (in-vitro) | Method (in-vitro) | Result (in-vivo)  | Method (in-vivo) |
|---|-------------------|-------------------|-------------------|------------------|
| fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | No data available |                   | No data available |                  |
| 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione  | No data available |                   | No data available |                  |
| Silica, amorphous, fumed, crystalline-free  | No data available |                   | No data available |                  |

## Carcinogenicity

| Ingredient(s)   | Effect            |
|---|-------------------|
| fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | No data available |
| 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione  | No data available |
| Silica, amorphous, fumed, crystalline-free  | No data available |

## Toxicity for reproduction

| Ingredient(s)   | Endpoint | Specific effect | Value (mg/kg bw/d) | Species | Method | Exposure time | Remarks and other effects reported |
|---|----------|-----------------|--------------------|---------|--------|---------------|------------------------------------|
| fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized |          |                 | No data available  |         |        |               |                                    |
| 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione  |          |                 | No data available  |         |        |               |                                    |
| Silica, amorphous, fumed, crystalline-free  |          |                 | No data available  |         |        |               |                                    |

## Comfort Professional Concentrated Blue Skies

**Repeated dose toxicity**

Sub-acute or sub-chronic oral toxicity

| Ingredient(s)   | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|---|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized |          | No data available  |         |        |                      |                                      |
| 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione  |          | No data available  |         |        |                      |                                      |
| Silica, amorphous, fumed, crystalline-free  |          | No data available  |         |        |                      |                                      |

Sub-chronic dermal toxicity

| Ingredient(s)   | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|---|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized |          | No data available  |         |        |                      |                                      |
| 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione  |          | No data available  |         |        |                      |                                      |
| Silica, amorphous, fumed, crystalline-free  |          | No data available  |         |        |                      |                                      |

Sub-chronic inhalation toxicity

| Ingredient(s)   | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|---|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized |          | No data available  |         |        |                      |                                      |
| 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione  |          | No data available  |         |        |                      |                                      |
| Silica, amorphous, fumed, crystalline-free  |          | No data available  |         |        |                      |                                      |

Chronic toxicity

| Ingredient(s)   | Exposure route | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time | Specific effects and organs affected | Remark |
|---|----------------|----------|--------------------|---------|--------|---------------|--------------------------------------|--------|
| fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized |                |          | No data available  |         |        |               |                                      |        |
| 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione  |                |          | No data available  |         |        |               |                                      |        |
| Silica, amorphous, fumed, crystalline-free  |                |          | No data available  |         |        |               |                                      |        |

STOT-single exposure

| Ingredient(s)   | Affected organ(s) |
|---|-------------------|
| fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | No data available |
| 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione  | No data available |
| Silica, amorphous, fumed, crystalline-free  | No data available |

STOT-repeated exposure

| Ingredient(s)   | Affected organ(s) |
|---|-------------------|
| fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | No data available |
| 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione  | No data available |
| Silica, amorphous, fumed, crystalline-free  | No data available |

**Aspiration hazard**

Substances with an aspiration hazard (H304), if any, are listed in section 3.

**Potential adverse health effects and symptoms**

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

**11.2 Information on other hazards****11.2.1 Endocrine disrupting properties**

Endocrine disrupting properties - Human data, if available:

**11.2.2 Other information**

No other relevant information available.

**SECTION 12: Ecological information**



## Comfort Professional Concentrated Blue Skies

## 12.1 Toxicity

No data is available on the mixture.

Substance data, where relevant and available, are listed below:

## Aquatic short-term toxicity

Aquatic short-term toxicity - fish

| Ingredient(s)   | Endpoint         | Value (mg/l) | Species                    | Method                | Exposure time (h) |
|---|------------------|--------------|----------------------------|-----------------------|-------------------|
| fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | LC <sub>50</sub> | 1.91         | <i>Oncorhynchus mykiss</i> | Read across           | 96                |
| 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione  | LC <sub>50</sub> | > 82.3       | <i>Brachydanio rerio</i>   | OECD 203, semi-static | 96                |
| Silica, amorphous, fumed, crystalline-free  | LC <sub>50</sub> | > 100        |                            | OECD 203, static      | 96                |

Aquatic short-term toxicity - crustacea

| Ingredient(s)   | Endpoint         | Value (mg/l) | Species                     | Method                | Exposure time (h) |
|---|------------------|--------------|-----------------------------|-----------------------|-------------------|
| fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | EC <sub>50</sub> | 2.23         | <i>Daphnia magna Straus</i> | Read across           | 48                |
| 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione  | EC <sub>50</sub> | 29.1         | <i>Daphnia magna Straus</i> | OECD 202, semi-static | 48                |
| Silica, amorphous, fumed, crystalline-free  | EC <sub>50</sub> | > 1000       | <i>Daphnia magna Straus</i> | OECD 202, static      | 48                |

Aquatic short-term toxicity - algae

| Ingredient(s)   | Endpoint         | Value (mg/l) | Species                        | Method           | Exposure time (h) |
|---|------------------|--------------|--------------------------------|------------------|-------------------|
| fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | IC <sub>50</sub> | 1.48         | <i>Not specified</i>           | Read across      | 72                |
| 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione  | EC <sub>50</sub> | 11           | <i>Desmodesmus subspicatus</i> | OECD 201, static | 72                |
| Silica, amorphous, fumed, crystalline-free  | EC <sub>50</sub> | > 100        | <i>Desmodesmus subspicatus</i> | OECD 201, static | 72                |

Aquatic short-term toxicity - marine species

| Ingredient(s)   | Endpoint | Value (mg/l)      | Species | Method | Exposure time (days) |
|---|----------|-------------------|---------|--------|----------------------|
| fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized |          | No data available |         |        |                      |
| 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione  |          | No data available |         |        |                      |
| Silica, amorphous, fumed, crystalline-free  |          | No data available |         |        |                      |

Impact on sewage plants - toxicity to bacteria

| Ingredient(s)   | Endpoint         | Value (mg/l)      | Inoculum                | Method   | Exposure time |
|---|------------------|-------------------|-------------------------|----------|---------------|
| fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized |                  | No data available |                         |          |               |
| 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione  | EC <sub>50</sub> | > 100             | <i>Activated sludge</i> | OECD 209 | 3 hour(s)     |
| Silica, amorphous, fumed, crystalline-free  |                  | No data available |                         |          |               |

## Aquatic long-term toxicity

Aquatic long-term toxicity - fish

| Ingredient(s)   | Endpoint | Value (mg/l)      | Species | Method | Exposure time | Effects observed |
|---|----------|-------------------|---------|--------|---------------|------------------|
| fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized |          | No data available |         |        |               |                  |
| 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione  |          | No data available |         |        |               |                  |
| Silica, amorphous, fumed, crystalline-free  |          | No data available |         |        |               |                  |

Aquatic long-term toxicity - crustacea

| Ingredient(s)   | Endpoint | Value (mg/l)      | Species | Method | Exposure time | Effects observed |
|---|----------|-------------------|---------|--------|---------------|------------------|
| fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized |          | No data available |         |        |               |                  |
| 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione  |          | No data available |         |        |               |                  |
| Silica, amorphous, fumed, crystalline-free  |          | No data available |         |        |               |                  |

## Comfort Professional Concentrated Blue Skies

|  |  |           |  |  |  |
|--|--|-----------|--|--|--|
|  |  | available |  |  |  |
|--|--|-----------|--|--|--|

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

| Ingredient(s)   | Endpoint | Value (mg/kg dw sediment) | Species | Method | Exposure time (days) | Effects observed |
|---|----------|---------------------------|---------|--------|----------------------|------------------|
| fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized |          | No data available         |         |        |                      |                  |
| 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione  |          | No data available         |         |        |                      |                  |
| Silica, amorphous, fumed, crystalline-free  |          | No data available         |         |        |                      |                  |

**Terrestrial toxicity**

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

Terrestrial toxicity - plants, if available:

Terrestrial toxicity - birds, if available:

Terrestrial toxicity - beneficial insects, if available:

Terrestrial toxicity - soil bacteria, if available:

**12.2 Persistence and degradability****Abiotic degradation**

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

**Biodegradation**

Ready biodegradability - aerobic conditions

| Ingredient(s)   | Inoculum                  | Analytical method | DT <sub>50</sub>   | Method    | Evaluation                           |
|---|---------------------------|-------------------|--------------------|-----------|--------------------------------------|
| fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized |                           |                   | 98.9% in 28 day(s) | OECD 301B | Readily biodegradable                |
| 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione  | Activated sludge, aerobic | DOC reduction     | 95% in 28 day(s)   | OECD 301A | Readily biodegradable                |
| Silica, amorphous, fumed, crystalline-free  |                           |                   |                    |           | Not applicable (inorganic substance) |

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

**12.3 Bioaccumulative potential**

Partition coefficient n-octanol/water (log K<sub>ow</sub>)

| Ingredient(s)   | Value             | Method           | Evaluation | Remark   |
|---|-------------------|------------------|------------|----------|
| fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | No data available |                  |            |          |
| 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione  | -2.9              | Method not given |            | at 20 °C |
| Silica, amorphous, fumed, crystalline-free  | No data available |                  |            |          |

Bioconcentration factor (BCF)

| Ingredient(s)   | Value             | Species | Method   | Evaluation                  | Remark |
|---|-------------------|---------|----------|-----------------------------|--------|
| fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | No data available |         |          |                             |        |
| 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione  | < 1.79            |         | OECD 305 | No bioaccumulation expected |        |
| Silica, amorphous, fumed, crystalline-free  | No data available |         |          |                             |        |

## Comfort Professional Concentrated Blue Skies

**12.4 Mobility in soil**

Adsorption/Desorption to soil or sediment

| Ingredient(s)   | Adsorption coefficient<br>Log K <sub>oc</sub> | Desorption coefficient<br>Log K <sub>oc</sub> (des) | Method | Soil/sediment type | Evaluation |
|---|---|---|--------|--------------------|------------|
| fatty acids, C10-20 and C16-18-unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized | No data available                             |   |        |                    |            |
| 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione  | No data available                             |   |        |                    |            |
| Silica, amorphous, fumed, crystalline-free  | No data available                             |   |        |                    |            |

**12.5 Results of PBT and vPvB assessment**

Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

**12.6 Endocrine disrupting properties**

Endocrine disrupting properties - Environmental effects, if available:

**12.7 Other adverse effects**

No other adverse effects known.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Waste from residues / unused products:**

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.

**European Waste Catalogue:**

20 01 30 - detergents other than those mentioned in 20 01 29.

**Empty packaging****Recommendation:**

Dispose of observing national or local regulations.

**Suitable cleaning agents:**

Water, if necessary with cleaning agent.

**SECTION 14: Transport information****Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)****14.1 UN number:** Non-dangerous goods**14.2 UN proper shipping name:** Non-dangerous goods**14.3 Transport hazard class(es):** Non-dangerous goods**14.4 Packing group:** Non-dangerous goods**14.5 Environmental hazards:** Non-dangerous goods**14.6 Special precautions for user:** Non-dangerous goods**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:** Non-dangerous goods**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations:**

- Regulation (EC) No. 1907/2006 - REACH
- Regulation (EC) No 1272/2008 - CLP
- Regulation (EC) No. 648/2004 - Detergents regulation
- substances identified as having endocrine disrupting properties in accordance with the criteria set out in Delegated Regulation (EU) 2017/2100 or Regulation (EU) 2018/605
- Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
- International Maritime Dangerous Goods (IMDG) Code

**Authorisations or restrictions (Regulation (EC) No 1907/2006, Title VII respectively Title VIII):** Not applicable.**Ingredients according to EC Detergents Regulation 648/2004**

cationic surfactants

5 - 15 %

perfumes , DMDM Hydantoin, Potassium Sorbate, Alpha-Isomethyl Ionone, Eugenol, Citronellol, Hexyl Cinnamal, Limonene

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.

**Comfort Professional Concentrated Blue Skies**

648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

**Seveso - Classification:** Not classified

**15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out on the mixture

**SECTION 16: Other information**

*The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract*

**SDS code:** MSDS3891

**Version:** 17.1

**Revision:** 2022-12-10

**Reason for revision:**

Overall design adjusted in accordance with Amendment 2020/878, Annex II of Regulation (EC) No 1907/2006, This data sheet contains changes from the previous version in section(s):, 1, 7, 8, 9, 10, 16

**Classification procedure**

The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

**Full text of the H and EUH phrases mentioned in section 3:**

- H302 - Harmful if swallowed.
- H315 - Causes skin irritation.
- H319 - Causes serious eye irritation.

**Abbreviations and acronyms:**

- AISE - The international Association for Soaps, Detergents and Maintenance Products
- ATE - Acute Toxicity Estimate
- DNEL - Derived No Effect Limit
- EC50 - effective concentration, 50%
- ERC - Environmental release categories
- EUH - CLP Specific hazard statement
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- LCS - Life cycle stage
- LD50 - Lethal Dose, 50% / Median Lethal dose
- NOAEL - No observed adverse effect level
- NOEL - No observed effect level
- OECD - Organisation for Economic Cooperation and Development
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- PROC - Process categories
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative

**End of Safety Data Sheet**