# Safety Data Sheet

*According to Regulation (EC) No 1907/2006*

## Clax Revoflow Alc 10X1

**Revision:** 2023-12-12 **Version:** 09.0

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

**1.1 Product identifier**
**Trade name:** Clax Revoflow Alc 10X1

UFI: J0P5-C0HU-G00E-R721

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

| | |
|---|---|
| **Product use:** | Laundry aid .<br>For professional use only. |
| **Uses advised against:** | Uses other than those identified are not recommended. |

**SWED - Sector-specific worker exposure description :**
AISE_SWED_PW_8b_1
AISE_SWED_PW_1_1
AISE_SWED_PW_4_1

**1.3 Details of the supplier of the safety data sheet**
Diversey Europe Operations BV, Maarssenbroeksedijk 2, 3542DN Utrecht, The Netherlands

**Contact details**
Tandur Hf.
Hesthálsi 12, 110 Reykjavík
Tel. 5101200, Email: tandur@tandur.is

**1.4 Emergency telephone number**
Seek medical advice (show the label or safety data sheet where possible).
Poison Center: (+354) 543-2222
Emergency services: 112.

## SECTION 2: Hazards identification

**2.1 Classification of the substance or mixture**

Skin corrosion, Category 1A (H314)
EUH071
Specific target organ toxicity - Single exposure, Category 3 (H335)
Serious eye damage, Category 1 (H318)

**2.2 Label elements**

**Signal word:** Danger.

Contains disodium metasilicate (Sodium Metasilicate), sodium hydroxide (Sodium Hydroxide), Alcohols, C10-16, ethoxylated (7-<15 EO) (C12-15 Pareth-7)

**Hazard statements:**
H314 - Causes severe skin burns and eye damage.
EUH071 - Corrosive to the respiratory tract.

**Precautionary statements:**
P260 - Do not breathe dust.
P280 - Wear protective gloves, protective clothing and eye or face protection.
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.
P310 - Immediately call a POISON CENTRE, doctor or physician.

**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 |
|---|---|---|---|---|---|---|
| sodium carbonate | 207-838-8 | 497-19-8 | 01-2119485498-19 | Eye irritation, Category 2 (H319) | | 50-75 |
| disodium metasilicate | 229-912-9 | 6834-92-0 | 01-2119449811-37 | Skin corrosion, Category 1B (H314)<br>Specific target organ toxicity - Single exposure, Category 3 (H335)<br>Serious eye damage, Category 1 (H318)<br>Corrosive to metals, Category 1 (H290) | | 20-30 |
| sodium hydroxide | 215-185-5 | 1310-73-2 | 01-2119457892-27 | Skin corrosion, Category 1A (H314)<br>Corrosive to metals, Category 1 (H290) | | 3-10 |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | [4] | 68002-97-1 | [4] | Acute toxicity - Oral, Category 4 (H302)<br>Serious eye damage, Category 1 (H318)<br>Chronic aquatic toxicity, Category 3 (H412) | | 1-3 |

**Specific concentration limits**
sodium hydroxide:
• Serious eye damage, Category 1 (H318) >= 2% > Eye irritation, Category 2 (H319) >= 0.5%
• Skin corrosion, Category 1A (H314) >= 5% > Skin corrosion, Category 1B (H314) >= 2% > Skin irritation, Category 2 (H315) >= 0.5%

Workplace exposure limit(s), if available, are listed in subsection 8.1.
ATE, if available, are listed in section 11.
[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.
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**

**General Information:** Symptoms of intoxication may even occur after several hours. It is recommended to continue medical observation for at least 48 hours after the incident. If unconscious place in recovery position and seek medical advice. Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator.

**Inhalation:** Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTRE, doctor or physician.

**Skin contact:** Wash skin with plenty of lukewarm, gently flowing water for at least 30 minutes. Take off immediately all contaminated clothing and wash it before reuse. Immediately call a POISON CENTRE, doctor or physician.

**Eye contact:** Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE, doctor or physician.

**Ingestion:** Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Keep at rest. Immediately call a POISON CENTRE, doctor or physician.

**Self-protection of first aider:** Consider personal protective equipment as indicated in subsection 8.2.

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

**Inhalation:** Corrosive to the respiratory tract.

**Skin contact:** Causes severe burns.

**Eye contact:** Causes severe or permanent damage.

**Ingestion:** Ingestion will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.

**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**
Ensure adequate ventilation. Do not breathe dust or vapour. Wear suitable protective clothing. Wear eye/face protection. Wear suitable gloves.

**6.2 Environmental precautions**
Do not allow to enter drainage system, surface or ground water.

**6.3 Methods and material for containment and cleaning up**
Ensure adequate ventilation. Collect mechanically. 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:**
Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless adviced by Diversey. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Avoid contact with skin and eyes. Do not breathe dust. Use only outdoors or in a well-ventilated area. See chapter 8.2, Exposure controls / Personal protection.

**7.2 Conditions for safe storage, including any incompatibilities**
Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging.
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) |
|---|---|---|
| sodium hydroxide | | 2 mg/m³ |

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 |
|---|---|---|---|---|
| sodium carbonate | - | - | - | - |
| disodium metasilicate | - | - | - | 0.74 |
| sodium hydroxide | - | - | - | - |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | - | - | - | - |

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) |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| sodium carbonate | - | - | No data available | - |
| disodium metasilicate | No data available | - | No data available | 1.49 |
| sodium hydroxide | 2 % | - | - | - |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | - | - | 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) |
|---|---|---|---|---|
| sodium carbonate | No data available | - | No data available | - |
| disodium metasilicate | No data available | - | No data available | 0.74 |
| sodium hydroxide | 2 % | - | - | - |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | - | - | No data available | - |

DNEL/DMEL inhalatory exposure - Worker (mg/m³)

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|---|---|---|---|---|
| sodium carbonate | - | - | 10 | - |
| disodium metasilicate | - | - | - | 6.22 |
| sodium hydroxide | - | - | 1 | - |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | - | - | - | - |

DNEL/DMEL inhalatory exposure - Consumer (mg/m³)

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|---|---|---|---|---|
| sodium carbonate | 10 | - | - | - |
| disodium metasilicate | - | - | - | 1.55 |
| sodium hydroxide | - | - | 1 | - |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | - | - | - | - |

**Environmental exposure**

Environmental exposure - PNEC

| Ingredient(s) | Surface water, fresh (mg/l) | Surface water, marine (mg/l) | Intermittent (mg/l) | Sewage treatment plant (mg/l) |
|---|---|---|---|---|
| sodium carbonate | - | - | - | - |
| disodium metasilicate | 7.5 | 1 | 7.5 | 1000 |
| sodium hydroxide | - | - | - | - |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | - | - | - | - |

Environmental exposure - PNEC, continued

| Ingredient(s) | Sediment, freshwater (mg/kg) | Sediment, marine (mg/kg) | Soil (mg/kg) | Air (mg/m³) |
|---|---|---|---|---|
| sodium carbonate | - | - | - | - |
| disodium metasilicate | - | - | - | - |
| sodium hydroxide | - | - | - | - |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | - | - | - | - |

**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:** If the product is diluted by using specific dosing systems with no risk of splashes or direct skin contact, the personal protection equipment as described in this section is not required. Where possible: use in automated/closed system and cover open containers. Transport over pipes. Filling with automatic systems. Use tools for manual handling of product.

**Appropriate organisational controls:** Avoid direct contact and/or splashes where possible. Train personnel.

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

| | SWED - Sector-specific worker exposure description | LCS | PROC | Duration (min) | ERC |
|---|---|---|---|---|---|
| Automatic transfer and dilution | AISE_SWED_PW_8b_1 | PW | PROC 8b | 60 | ERC8b |

**Personal protective equipment**

**Eye / face protection:** Safety glasses or goggles (EN 16321 / EN 166).

**Hand protection:** Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and

breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.
Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: ≥ 480 min Material thickness: ≥ 0.7 mm
Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: ≥ 30 min Material thickness: ≥ 0.4 mm
In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.

**Body protection:** Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur (EN ISO 13982-1).

**Respiratory protection:** If exposure to dust cannot be avoided use: half mask (EN 140) with particle filter P2 (EN 143) or full-face mask (EN 136) with particle filter P1 (EN 143) Consider specific local use conditions. In consultation with the supplier of respiratory protection equipment a different type providing similar protection may be chosen.

**Environmental exposure controls:** Should not reach sewage water or drainage ditch undiluted or unneutralised.

*Recommended safety measures for handling the diluted product:*

**Recommended maximum concentration (% w/w):** 0.06

**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 |
|---|---|---|---|---|---|
| Automatic application in a dedicated closed system | AISE_SWED_PW_1_1 | PW | PROC 1 | 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**
**Information in this section refers to the product, unless it is specifically stated that substance data is listed**

**Method / remark**

**Physical state:** Solid
**Appearance:** Powder
**Colour:** Speckles , Medium , White
**Odour:** Product specific
**Odour threshold:** Not applicable
**Melting point/freezing point (°C):** Not determined — Not relevant to classification of this product
**Initial boiling point and boiling range (°C):** Not determined — Not applicable to solids or gases

Substance data, boiling point

| Ingredient(s) | Value (°C) | Method | Atmospheric pressure (hPa) |
|---|---|---|---|
| sodium carbonate | 1600 | Method not given | 1013 |
| disodium metasilicate | No data available | | |
| sodium hydroxide | > 990 | Method not given | |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | No data available | | |

**Method / remark**

**Flammability (solid, gas):** Not determined
**Flammability (liquid):** Not applicable.
**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

Substance data, flammability or explosive limits, if available:

| | Method / remark |
|---|---|
| **Autoignition temperature:** Not determined | |
| **Decomposition temperature:** Not applicable. | |
| **pH:** Not applicable | |
| **Dilution pH:** > 11 (0.06 %) | ISO 4316 |
| **Kinematic viscosity:** Not applicable to solids or gases | Not applicable to solids or gases |
| **Solubility in / Miscibility with water:** Soluble | |

Substance data, solubility in water

| Ingredient(s) | Value (g/l) | Method | Temperature (°C) |
|---|---|---|---|
| sodium carbonate | 210-215 | Method not given | 20 |
| disodium metasilicate | 350 | Method not given | 20 |
| sodium hydroxide | 1000 | Method not given | 20 |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | 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) |
|---|---|---|---|
| sodium carbonate | Negligible | | |
| disodium metasilicate | No data available | | |
| sodium hydroxide | < 1330 | Method not given | 20 |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | < 0.15 | | 20 |

| | Method / remark |
|---|---|
| **Relative density:** ≈ 1.05 (20 °C) | OECD 109 (EU A.3) |
| **Relative vapour density:** No data available. | Not applicable to solids |
| **Particle characteristics:** Not determined. | Not relevant to classification of this product. |

**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 determined — Not applicable to solids or gases

**9.2.2 Other safety characteristics**
**Alkali reserve:** ≈ 31.8 (g NaOH / 100g; pH=10)

## SECTION 10: Stability and reactivity

**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**
Reacts with acids.

**10.6 Hazardous decomposition products**
None known under normal storage and use conditions.

## SECTION 11: Toxicological information

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

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 Oral (mg/kg) |
|---|---|---|---|---|---|---|
| sodium carbonate | $LD_{50}$ | 2800 | Rat | OECD 401 (EU B.1) | | 2800 |
| disodium metasilicate | $LD_{50}$ | 770 - 820 | Mouse | Method not given | ECHA Dossier 2020 | Not established |
| sodium hydroxide | | No data available | | | | Not established |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | $LD_{50}$ | 300-2000 | Rat | Weight of evidence | | 1000 |

Acute dermal toxicity

| Ingredient(s) | Endpoint | Value (mg/kg) | Species | Method | Exposure time (h) | ATE Dermal (mg/kg) |
|---|---|---|---|---|---|---|
| sodium carbonate | $LD_{50}$ | > 2000 | Rabbit | Method not given | | Not established |
| disodium metasilicate | $LD_{50}$ | > 5000 | Rat Guinea pig | Method not given | | Not established |
| sodium hydroxide | $LD_{50}$ | 1350 | Rabbit | Method not given | | Not established |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | $LD_{50}$ | > 2000 | | Method not given | | Not established |

Acute inhalative toxicity

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| sodium carbonate | $LC_{50}$ | > 2.3 (dust) | | Weight of evidence | 2 |
| disodium metasilicate | $LC_{50}$ | > 2.06 | Rat | Method not given | |
| sodium hydroxide | | No data available | | | |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | | 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) |
|---|---|---|---|---|
| sodium carbonate | Not established | Not established | Not established | Not established |
| disodium metasilicate | Not established | Not established | Not established | Not established |
| sodium hydroxide | Not established | Not established | Not established | Not established |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | Not established | Not established | Not established | Not established |

### Irritation and corrosivity

Skin irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| sodium carbonate | Not irritant | Rabbit | OECD 404 (EU B.4) | |
| disodium metasilicate | Corrosive | | Method not given | |
| sodium hydroxide | Corrosive | Rabbit | Method not given | |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | Not irritant | Rabbit | Method not given | |

Eye irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| sodium carbonate | Irritant | Rabbit | OECD 405 (EU B.5) | |
| disodium metasilicate | Corrosive | | Method not given | |
| sodium hydroxide | Corrosive | Rabbit | Method not given | |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | Severe damage | Rabbit | Method not given | |

Respiratory tract irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| sodium carbonate | No data available | | | |
| disodium metasilicate | Irritating to respiratory tract | | Method not given | |
| sodium hydroxide | No data available | | | |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | No data available | | | |

### Sensitisation

Sensitisation by skin contact

| Ingredient(s) | Result | Species | Method | Exposure time (h) |
|---|---|---|---|---|
| sodium carbonate | Not sensitising | | Method not given | |
| disodium metasilicate | Not sensitising | Mouse | OECD 429 (EU B.42) | |
| sodium hydroxide | Not sensitising | | Human repeated patch test | |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | Not sensitising | Guinea pig | Method not given | |

Sensitisation by inhalation

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| sodium carbonate | No data available | | | |
| disodium metasilicate | No data available | | | |
| sodium hydroxide | No data available | | | |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | 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) |
|---|---|---|---|---|
| sodium carbonate | No data available | | No data available | |
| disodium metasilicate | No data available | | No data available | |
| sodium hydroxide | No evidence for mutagenicity, negative test results | DNA repair test on rat hepatocytes OECD 473 | No evidence for mutagenicity, negative test results | OECD 474 (EU B.12) OECD 475 (EU B.11) |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | No evidence for mutagenicity, negative test results | Method not given | No evidence for mutagenicity, negative test results | Method not given |

Carcinogenicity

| Ingredient(s) | Effect |
|---|---|
| sodium carbonate | No evidence for carcinogenicity, weight-of-evidence |
| disodium metasilicate | No data available |
| sodium hydroxide | No evidence for carcinogenicity, weight-of-evidence |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | No evidence for carcinogenicity, weight-of-evidence |

Toxicity for reproduction

| Ingredient(s) | Endpoint | Specific effect | Value (mg/kg bw/d) | Species | Method | Exposure time | Remarks and other effects reported |
|---|---|---|---|---|---|---|---|
| sodium carbonate | | | No data available | | | | |
| disodium metasilicate | | | No data available | | | | |
| sodium hydroxide | | | No data available | | | | No evidence for developmental toxicity No evidence for reproductive toxicity |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | | | No data available | | Literature | | No evidence for teratogenic effects No evidence for reproductive toxicity |

**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 |
|---|---|---|---|---|---|---|
| sodium carbonate | | No data available | | | | |
| disodium metasilicate | NOAEL | > 227 - 237 | Rat | Method not given | | |
| sodium hydroxide | | No data available | | | | |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | | 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 |
|---|---|---|---|---|---|---|
| sodium carbonate | | No data available | | | | |
| disodium metasilicate | | No data available | | | | |
| sodium hydroxide | | No data available | | | | |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | | 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 |
|---|---|---|---|---|---|---|
| sodium carbonate | | No data available | | | | |
| disodium metasilicate | | No data available | | | | |
| sodium hydroxide | | No data available | | | | |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | | 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 |
|---|---|---|---|---|---|---|---|---|
| sodium carbonate | | | No data available | | | | | |
| disodium metasilicate | | | No data available | | | | | |
| sodium hydroxide | | | No data available | | | | | |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | | | No data available | | | | | |

STOT-single exposure

| Ingredient(s) | Affected organ(s) |
|---|---|
| sodium carbonate | Not applicable |
| disodium metasilicate | Respiratory tract |
| sodium hydroxide | No data available |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | No data available |

STOT-repeated exposure

| Ingredient(s) | Affected organ(s) |
|---|---|
| sodium carbonate | Not applicable |
| disodium metasilicate | Not applicable |
| sodium hydroxide | No data available |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | 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

**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) |
|---|---|---|---|---|---|
| sodium carbonate | $LC_{50}$ | 300 | *Lepomis macrochirus* | Method not given | 96 |
| disodium metasilicate | $LC_{50}$ | 210 | *Brachydanio rerio* | Method not given | 96 |
| sodium hydroxide | $LC_{50}$ | 35 | *Various species* | Method not given | 96 |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | $LC_{50}$ | > 1-10 | *Brachydanio rerio* | Method not given | 96 |

Aquatic short-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| sodium carbonate | $EC_{50}$ | 200-227 | *Ceriodaphnia dubia* | Method not given | 96 |
| disodium metasilicate | $EC_{50}$ | 1700 | *Daphnia* | Method not given | 48 |
| sodium hydroxide | $EC_{50}$ | 40.4 | *Ceriodaphnia sp.* | Method not given | 48 |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | $EC_{50}$ | > 1-10 | *Daphnia magna Straus* | Method not given | 48 |

Aquatic short-term toxicity - algae

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| sodium carbonate | $EC_{50}$ | > 800 | *Selenastrum capricornutum* | | 72 |
| disodium metasilicate | $EC_{50}$ | 207 | *Chlorella pyrenoidosa* | Method not given | 72 |
| sodium hydroxide | $EC_{50}$ | 22 | *Photobacterium phosphoreum* | Method not given | 0.25 |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | $EC_{50}$ | > 1-10 | *Desmodesmus subspicatus* | Method not given | 72 |

Aquatic short-term toxicity - marine species

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (days) |
|---|---|---|---|---|---|
| sodium carbonate | | No data available | | | |
| disodium metasilicate | | No data available | | | |
| sodium hydroxide | | No data available | | | |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | | No data available | | | |

Impact on sewage plants - toxicity to bacteria

| Ingredient(s) | Endpoint | Value (mg/l) | Inoculum | Method | Exposure time |
|---|---|---|---|---|---|
| sodium carbonate | | No data available | | | |
| disodium metasilicate | $EC_{50}$ | > 100 | *Activated sludge* | Method not given | 3 hour(s) |
| sodium hydroxide | | No data available | | | |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | $EC_{50}$ | 140 | *Activated sludge* | Method not given | |

**Aquatic long-term toxicity**

Aquatic long-term toxicity - fish

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|---|---|---|---|---|---|---|
| sodium carbonate | | No data available | | | | |
| disodium metasilicate | | No data available | | | | |
| sodium hydroxide | | No data available | | | | |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | | No data available | | | | |

Aquatic long-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|---|---|---|---|---|---|---|
| sodium carbonate | | No data available | | | | |
| disodium metasilicate | | No data available | | | | |
| sodium hydroxide | | No data available | | | | |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | $EC_{10}$ | > 0.1-1 | *Daphnia sp.* | OECD 211 | | |

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 |
|---|---|---|---|---|---|---|
| sodium carbonate | | No data | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | available | | | | |
| disodium metasilicate | | No data available | | | | |
| sodium hydroxide | | No data available | | | | |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | | No data available | | | | |

**Terrestrial toxicity**

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

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|---|---|---|---|---|---|---|
| sodium carbonate | | No data available | | | | |
| sodium hydroxide | | No data available | | | | |

Terrestrial toxicity - plants, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|---|---|---|---|---|---|---|
| sodium carbonate | | No data available | | | | |
| sodium hydroxide | | No data available | | | | |

Terrestrial toxicity - birds, if available:

| Ingredient(s) | Endpoint | Value | Species | Method | Exposure time (days) | Effects observed |
|---|---|---|---|---|---|---|
| sodium carbonate | | No data available | | | | |
| sodium hydroxide | | No data available | | | | |

Terrestrial toxicity - beneficial insects, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|---|---|---|---|---|---|---|
| sodium carbonate | | No data available | | | | |
| sodium hydroxide | | No data available | | | | |

Terrestrial toxicity - soil bacteria, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|---|---|---|---|---|---|---|
| sodium carbonate | | No data available | | | | |
| sodium hydroxide | | No data available | | | | |

## 12.2 Persistence and degradability

### Abiotic degradation

Abiotic degradation - photodegradation in air, if available:

| Ingredient(s) | Half-life time | Method | Evaluation | Remark |
|---|---|---|---|---|
| sodium carbonate | No data available | | | |
| sodium hydroxide | 13 second(s) | Method not given | Rapidly photodegradable | |

Abiotic degradation - hydrolysis, if available:

| Ingredient(s) | Half-life time in fresh water | Method | Evaluation | Remark |
|---|---|---|---|---|
| sodium carbonate | No data available | | Rapidly hydrolysible | |
| sodium hydroxide | No data available | | | |

Abiotic degradation - other processes, if available:

| Ingredient(s) | Type | Half-life time | Method | Evaluation | Remark |
|---|---|---|---|---|---|
| sodium carbonate | | No data available | | | |
| sodium hydroxide | | No data available | | | |

### Biodegradation

Ready biodegradability - aerobic conditions

| Ingredient(s) | Inoculum | Analytical method | DT 50 | Method | Evaluation |
|---|---|---|---|---|---|
| sodium carbonate | | | | | Not applicable (inorganic substance) |
| disodium metasilicate | | | | | Not applicable (inorganic substance) |
| sodium hydroxide | | | | | Not applicable (inorganic substance) |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | Activated sludge, aerobe | Method not given | > 60 % in 28 day(s) | OECD 301B | Readily biodegradable |

Ready biodegradability - anaerobic and marine conditions, if available:

| Ingredient(s) | Medium & Type | Analytical method | DT 50 | Method | Evaluation |
|---|---|---|---|---|---|
| sodium carbonate | | | | | No data available |
| sodium hydroxide | | | | | No data available |

Degradation in relevant environmental compartments, if available:

| Ingredient(s) | Medium & Type | Analytical method | DT 50 | Method | Evaluation |
|---|---|---|---|---|---|
| sodium carbonate | | | | | No data available |
| sodium hydroxide | | | | | No data available |

### 12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

| Ingredient(s) | Value | Method | Evaluation | Remark |
|---|---|---|---|---|
| sodium carbonate | No data available | | No bioaccumulation expected | |
| disodium metasilicate | No data available | | | |
| sodium hydroxide | No data available | | Not relevant, does not bioaccumulate | |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | 3.55 | QSAR | No bioaccumulation expected | |

Bioconcentration factor (BCF)

| Ingredient(s) | Value | Species | Method | Evaluation | Remark |
|---|---|---|---|---|---|
| sodium carbonate | No data available | | | No bioaccumulation expected | |
| disodium metasilicate | No data available | | | | |
| sodium hydroxide | No data available | | | | |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | No data available | | | | |

### 12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

| Ingredient(s) | Adsorption coefficient Log Koc | Desorption coefficient Log Koc(des) | Method | Soil/sediment type | Evaluation |
|---|---|---|---|---|---|
| sodium carbonate | No data available | | | | Potential for mobility in soil, soluble in water |
| disodium metasilicate | No data available | | | | |
| sodium hydroxide | No data available | | | | Mobile in soil |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | 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.

**Empty packaging Recommendation:** Dispose of observing national or local regulations.

## SECTION 14: Transport information


**Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)**

**14.1 UN number or ID number:** 1823

**14.2 UN proper shipping name:**

Sodium hydroxide, solid , mixture

Sodium hydroxide, solid , mixture

**14.3 Transport hazard class(es):**

**Transport hazard class (and subsidiary risks):** 8

**14.4 Packing group:** II

**14.5 Environmental hazards:**

**Environmentally hazardous:** No

**Marine pollutant:** No

**14.6 Special precautions for user:** None known.

**14.7 Maritime transport in bulk according to IMO instruments:** The product is not transported in bulk tankers.

**Other relevant information:**

**ADR**

**Classification code:** C6

**Tunnel restriction code:** (E)

**Hazard identification number:** 80

**IMO/IMDG**

**EmS:** F-A, S-B

The product has been classified, labelled and packaged in accordance with the requirements of ADR and the provisions of the IMDG Code Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

## 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**

polycarboxylates, non-ionic surfactants < 5 %

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 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:** MSDS5922 **Version:** 09.0 **Revision:** 2023-12-12

**Reason for revision:**
This data sheet contains changes from the previous version in section(s):, Overall design adjusted in accordance with Amendment 2020/878, Annex II of Regulation (EC) No 1907/2006, 2, 4, 9, 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.

**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
• H290 - May be corrosive to metals.
• H302 - Harmful if swallowed.
• H314 - Causes severe skin burns and eye damage.
• H318 - Causes serious eye damage.
• H319 - Causes serious eye irritation.
• H335 - May cause respiratory irritation.
• H412 - Harmful to aquatic life with long lasting effects.

**End of Safety Data Sheet**