# Safety Data Sheet

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

## Domestos Professional Drain Unblocker Gel

**Revision:** 2025-05-02 **Version:** 02.0

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

### 1.1 Product identifier

**Trade name:** Domestos Professional Drain Unblocker Gel

*Domestos is a registered trade mark and is used under licence of Unilever*

UFI: CE7H-X1R8-X004-P917

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

| | |
|---|---|
| **Product use:** | Drain unblocker.<br>Drain cleaner. |
| **Uses advised against:** | Uses other than those identified are not recommended. |

**SWED - Sector-specific worker exposure description :**
PC35-Washing and cleaning products

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

Diversey Europe Operations BV, De Corridor 4, 3621ZB Breukelen [Maarssenbroeksedijk 2, 3542DN Utrecht], The Netherlands

Tel: 01 8081808 (9am - 5pm Mon-Fri)
Email: dublin.orders@solenis.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

Skin corrosion, Category 1B (H314)
Serious eye damage, Category 1 (H318)
Acute aquatic toxicity, Category 1 (H400)
Chronic aquatic toxicity, Category 2 (H411)
Corrosive to metals, Category 1 (H290)

### 2.2 Label elements



**Signal word:** Danger.

Contains sodium hypochlorite (active chlorine) (Sodium Hypochlorite), sodium hydroxide (Sodium Hydroxide), amines, C12-18-alkyldimethyl, N-oxides (Myristamine Oxide), Dodecanoic acid, sodium salt (Sodium Laurate)

**Hazard statements:**
H290 - May be corrosive to metals.
H314 - Causes severe skin burns and eye damage.
H410 - Very toxic to aquatic life with long lasting effects.
EUH206 - Warning! Do not use together with other products. May release dangerous gases (chlorine).

**Precautionary statements:**
P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P260 - Do not breathe vapours.
P280 - Wear protective gloves, protective clothing and eye or face protection.
P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
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.
P405 - Store locked up.
P501 - Dispose of unused content as chemical waste.

**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 hypochlorite (active chlorine) | 231-668-3 | 7681-52-9 | 01-2119488154-34 | EUH031<br>Skin corrosion, Category 1B (H314)<br>Serious eye damage, Category 1 (H318)<br>Acute aquatic toxicity, Category 1 M=10 (H400)<br>Chronic aquatic toxicity, Category 1 M=1 (H410)<br>Corrosive to metals, Category 1 (H290) | | 3-10 |
| 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 |
| Dodecanoic acid, sodium salt | 211-082-4 | 629-25-4 | - | Skin irritation, Category 2 (H315)<br>Serious eye damage, Category 1 (H318) | | 1-3 |
| Decanoic acid, sodium salt | 213-688-4 | 1002-62-6 | - | Skin irritation, Category 2 (H315)<br>Eye irritation, Category 2 (H319) | | 1-3 |
| amines, C12-18-alkyldimethyl, N-oxides | 931-341-1 | 68955-55-5 | 01-2119489396-21 | Acute toxicity - Oral, Category 4 (H302)<br>Skin irritation, Category 2 (H315)<br>Serious eye damage, Category 1 (H318)<br>Acute aquatic toxicity, Category 1 M=1 (H400)<br>Chronic aquatic toxicity, Category 2 (H411) | | 1-3 |

**Specific concentration limits**
sodium hypochlorite (active chlorine):
• EUH031 >= 5%
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.
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:** 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. Get medical attention or advice if you feel unwell.

**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. If skin irritation occurs: Get medical advice or attention.

**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:** May cause bronchospasm in chlorine sensitive individuals.

**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**
Dilute with plenty of water. Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil. Inform responsible authorities in case undiluted product reaches drainage system, surface or ground water or the ground/soil.

**6.3 Methods and material for containment and cleaning up**
Ensure adequate ventilation. Dyke to collect large liquid spills. Absorb with liquid-binding material (sand, diatomite, universal binders). 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.

**Advice 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. 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 vapours. Use only with adequate ventilation. 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. Keep locked up and out of the reach of children.
For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

Seveso - Lower Tier requirements (tonnes): 100
Seveso - Upper Tier requirements (tonnes): 200

**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 hypochlorite (active chlorine) | - | - | - | 0.26 |
| sodium hydroxide | - | - | - | - |
| Dodecanoic acid, sodium salt | - | - | - | - |
| Decanoic acid, sodium salt | No data available | No data available | No data available | No data available |
| amines, C12-18-alkyldimethyl, N-oxides | 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) |
|---|---|---|---|---|
| sodium hypochlorite (active chlorine) | - | - | 0.5 % | - |
| sodium hydroxide | 2 % | - | - | - |
| Dodecanoic acid, sodium salt | No data available | - | No data available | - |
| Decanoic acid, sodium salt | No data available | No data available | No data available | No data available |
| amines, C12-18-alkyldimethyl, N-oxides | 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) |
|---|---|---|---|---|
| sodium hypochlorite (active chlorine) | - | - | 0.5 % | - |
| sodium hydroxide | 2 % | - | - | - |
| Dodecanoic acid, sodium salt | No data available | - | No data available | - |
| Decanoic acid, sodium salt | No data available | No data available | No data available | No data available |
| amines, C12-18-alkyldimethyl, N-oxides | No data available | No data available | No data available | 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 hypochlorite (active chlorine) | 3.1 | 3.1 | 1.55 | 1.55 |
| sodium hydroxide | - | - | 1 | - |
| Dodecanoic acid, sodium salt | - | - | - | - |
| Decanoic acid, sodium salt | No data available | No data available | No data available | No data available |
| amines, C12-18-alkyldimethyl, N-oxides | No data available | No data available | No data available | No data available |

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 hypochlorite (active chlorine) | 3.1 | 3.1 | 1.55 | 1.55 |
| sodium hydroxide | - | - | 1 | - |
| Dodecanoic acid, sodium salt | - | - | - | - |
| Decanoic acid, sodium salt | No data available | No data available | No data available | No data available |
| amines, C12-18-alkyldimethyl, N-oxides | No data available | No data available | No data available | No data available |

**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 hypochlorite (active chlorine) | 0.00021 | 0.000042 | 0.00026 | 0.03 |
| sodium hydroxide | - | - | - | - |
| Dodecanoic acid, sodium salt | - | - | - | - |
| Decanoic acid, sodium salt | No data available | No data available | No data available | No data available |
| amines, C12-18-alkyldimethyl, N-oxides | 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/m³) |
|---|---|---|---|---|
| sodium hypochlorite (active chlorine) | - | - | - | - |
| sodium hydroxide | - | - | - | - |
| Dodecanoic acid, sodium salt | - | - | - | - |
| Decanoic acid, sodium salt | No data available | No data available | No data available | No data available |
| amines, C12-18-alkyldimethyl, N-oxides | 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:** 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 |
|---|---|---|---|---|---|
| PC35-Washing and cleaning products | PC35-Washing and cleaning products | C | - | - | ERC8a |

**Personal protective equipment**

**Eye / face protection:** Safety glasses or goggles (EN 16321). The use of a full-face shield or other full-face protection is strongly recommended when handling open containers or if splashes may occur.

**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 14605).

**Respiratory protection:** Respiratory protection is not normally required. However, inhalation of vapour, spray, gas or aerosols should be avoided.

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

## 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:** Liquid
**Colour:** Clear , Yellow
**Odour:** Chlorine
**Odour threshold:** Not applicable
**Melting point/freezing point (°C):** Not determined — OECD 102
**Initial boiling point and boiling range (°C):** Not determined — See substance data

Substance data, boiling point

| Ingredient(s) | Value (°C) | Method | Atmospheric pressure (hPa) |
|---|---|---|---|
| sodium hypochlorite (active chlorine) | Product decomposes before boiling | Method not given | 1013 |
| sodium hydroxide | > 990 | Method not given | |
| Dodecanoic acid, sodium salt | No data available | | |
| Decanoic acid, sodium salt | No data available | | |
| amines, C12-18-alkyldimethyl, N-oxides | No data available | | |

**Method / remark**

**Flammability (solid, gas):** Not applicable to liquids
**Flammability (liquid):** Not flammable.
**Flash point (°C):** > 100 °C — Weight of evidence
**Sustained combustion:** The product does not sustain combustion — Weight of evidence
*( 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:

| Ingredient(s) | Lower limit (% vol) | Upper limit (% vol) |
|---|---|---|
| sodium hypochlorite (active chlorine) | - | - |

**Method / remark**

**Autoignition temperature:** Not determined

**Decomposition temperature:** Not applicable.
**pH:** >= 11.5 (neat) ISO 4316
**Kinematic viscosity:** ≈ 2000 mPa.s (20 °C)
**Solubility in / Miscibility with water:** Fully miscible

Substance data, solubility in water

| Ingredient(s) | Value (g/l) | Method | Temperature (°C) |
|---|---|---|---|
| sodium hypochlorite (active chlorine) | Soluble | | |
| sodium hydroxide | 1000 | Method not given | 20 |
| Dodecanoic acid, sodium salt | No data available | | |
| Decanoic acid, sodium salt | No data available | | |
| amines, C12-18-alkyldimethyl, N-oxides | 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 hypochlorite (active chlorine) | Negligible | | |
| sodium hydroxide | < 1330 | Method not given | 20 |
| Dodecanoic acid, sodium salt | No data available | | |
| Decanoic acid, sodium salt | No data available | | |
| amines, C12-18-alkyldimethyl, N-oxides | No data available | | |

**Method / remark**
**Relative density:** ≈ 1.00 (20 °C) OECD 109 (EU A.3)
**Relative vapour density:** No data available. Not relevant to classification of this product
**Particle characteristics:** No data available. Not applicable to liquids.

**9.2 Other information**
**9.2.1 Information with regard to physical hazard classes**
**Explosive properties:** Not explosive. Vapours may form explosive mixtures with air.
**Oxidising properties:** Not oxidising.
**Corrosion to metals:** Corrosive

**9.2.2 Other safety characteristics**
No other relevant information available.

## 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**
May be corrosive to metals. Reacts with acids. Reacts with acids releasing toxic chlorine gas.

**10.6 Hazardous decomposition products**
Chlorine.

## 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 hypochlorite (active chlorine) | $LD_{50}$ | 1100 | Rat | OECD 401 (EU B.1) | 90 | Not established |
| sodium hydroxide | | No data available | | | | Not established |
| Dodecanoic acid, sodium salt | | No data available | | | | Not established |
| Decanoic acid, sodium salt | | No data available | | | | Not established |
| amines, C12-18-alkyldimethyl, N-oxides | $LD_{50}$ | 846 | Rat | OECD 401 (EU B.1) | | 846 |

Acute dermal toxicity

| Ingredient(s) | Endpoint | Value (mg/kg) | Species | Method | Exposure time (h) | ATE Dermal (mg/kg) |
|---|---|---|---|---|---|---|
| sodium hypochlorite (active chlorine) | $LD_{50}$ | > 20000 | Rabbit | OECD 402 (EU B.3) | | Not established |
| sodium hydroxide | $LD_{50}$ | 1350 | Rabbit | Method not given | | Not established |
| Dodecanoic acid, sodium salt | | No data available | | | | Not established |
| Decanoic acid, sodium salt | | No data available | | | | Not established |
| amines, C12-18-alkyldimethyl, N-oxides | | No data available | | | | Not established |

Acute inhalative toxicity

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| sodium hypochlorite (active chlorine) | $LC_{50}$ | > 10.5 (vapour) | Rat | OECD 403 (EU B.2) | 1 |
| sodium hydroxide | | No data available | | | |
| Dodecanoic acid, sodium salt | | No data available | | | |
| Decanoic acid, sodium salt | | No data available | | | |
| amines, C12-18-alkyldimethyl, N-oxides | | 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 hypochlorite (active chlorine) | Not established | Not established | Not established | Not established |
| sodium hydroxide | Not established | Not established | Not established | Not established |
| Dodecanoic acid, sodium salt | Not established | Not established | Not established | Not established |
| Decanoic acid, sodium salt | Not established | Not established | Not established | Not established |
| amines, C12-18-alkyldimethyl, N-oxides | Not established | Not established | Not established | Not established |

**Irritation and corrosivity**

Skin irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| sodium hypochlorite (active chlorine) | Corrosive | Rabbit | OECD 404 (EU B.4) | |
| sodium hydroxide | Corrosive | Rabbit | Method not given | |
| Dodecanoic acid, sodium salt | No data available | | | |
| Decanoic acid, sodium salt | No data available | | | |
| amines, C12-18-alkyldimethyl, N-oxides | Irritant | Rabbit | OECD 404 (EU B.4) | |

Eye irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| sodium hypochlorite (active chlorine) | Severe damage | Rabbit | OECD 405 (EU B.5) | |
| sodium hydroxide | Corrosive | Rabbit | Method not given | |
| Dodecanoic acid, sodium salt | No data available | | | |
| Decanoic acid, sodium salt | No data available | | | |
| amines, C12-18-alkyldimethyl, N-oxides | Severe damage | Rabbit | OECD 405 (EU B.5) | |

Respiratory tract irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| sodium hypochlorite (active chlorine) | Irritating to respiratory tract | | | |
| sodium hydroxide | No data available | | | |
| Dodecanoic acid, sodium salt | No data available | | | |
| Decanoic acid, sodium salt | No data available | | | |
| amines, C12-18-alkyldimethyl, N-oxides | No data available | | | |

### Sensitisation

Sensitisation by skin contact

| Ingredient(s) | Result | Species | Method | Exposure time (h) |
|---|---|---|---|---|
| sodium hypochlorite (active chlorine) | Not sensitising | Guinea pig | OECD 406 (EU B.6) / Buehler test | |
| sodium hydroxide | Not sensitising | | Human repeated patch test | |
| Dodecanoic acid, sodium salt | No data available | | | |
| Decanoic acid, sodium salt | No data available | | | |
| amines, C12-18-alkyldimethyl, N-oxides | No data available | | | |

Sensitisation by inhalation

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| sodium hypochlorite (active chlorine) | Not sensitising | | | |
| sodium hydroxide | No data available | | | |
| Dodecanoic acid, sodium salt | No data available | | | |
| Decanoic acid, sodium salt | No data available | | | |
| amines, C12-18-alkyldimethyl, N-oxides | 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 hypochlorite (active chlorine) | No evidence for mutagenicity | OECD 471 (EU B.12/13) | No evidence for mutagenicity, negative test results | OECD 474 (EU B.12) |
| 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) |
| Dodecanoic acid, sodium salt | No data available | | No data available | |
| Decanoic acid, sodium salt | No data available | | No data available | |
| amines, C12-18-alkyldimethyl, N-oxides | No data available | | No data available | |

Carcinogenicity

| Ingredient(s) | Effect |
|---|---|
| sodium hypochlorite (active chlorine) | No evidence for carcinogenicity, negative test results |
| sodium hydroxide | No evidence for carcinogenicity, weight-of-evidence |
| Dodecanoic acid, sodium salt | No data available |
| Decanoic acid, sodium salt | No data available |
| amines, C12-18-alkyldimethyl, N-oxides | 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 |
|---|---|---|---|---|---|---|---|
| sodium hypochlorite (active chlorine) | NOAEL | Developmental toxicity Impaired fertility | 5 (Cl) | Rat | OECD 414 (EU B.31), oral OECD 415 (EU B.34), oral | | No evidence for reproductive toxicity |
| sodium hydroxide | | | No data available | | | | No evidence for developmental toxicity No evidence for reproductive toxicity |
| Dodecanoic acid, sodium salt | | | No data available | | | | |
| Decanoic acid, sodium salt | | | No data available | | | | |
| amines, C12-18-alkyldimethyl, N-oxides | | | No data available | | | | |

### 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 hypochlorite (active chlorine) | NOAEL | 50 | Rat | OECD 408 (EU B.26) | 90 | |
| sodium hydroxide | | No data available | | | | |
| Dodecanoic acid, sodium salt | | No data available | | | | |
| Decanoic acid, sodium salt | | No data available | | | | |
| amines, C12-18-alkyldimethyl, N-oxides | | 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 hypochlorite (active chlorine) | | No data available | | | | |
| sodium hydroxide | | No data available | | | | |
| Dodecanoic acid, sodium salt | | No data available | | | | |
| Decanoic acid, sodium salt | | No data available | | | | |
| amines, C12-18-alkyldimethyl, N-oxides | | 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 hypochlorite (active chlorine) | | No data available | | | | |
| sodium hydroxide | | No data available | | | | |
| Dodecanoic acid, sodium salt | | No data available | | | | |
| Decanoic acid, sodium salt | | No data available | | | | |
| amines, C12-18-alkyldimethyl, N-oxides | | 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 hypochlorite (active chlorine) | | | No data available | | | | | |
| sodium hydroxide | | | No data available | | | | | |
| Dodecanoic acid, sodium salt | | | No data available | | | | | |
| Decanoic acid, sodium salt | | | No data available | | | | | |
| amines, C12-18-alkyldimethyl, N-oxides | | | No data available | | | | | |

STOT-single exposure

| Ingredient(s) | Affected organ(s) |
|---|---|
| sodium hypochlorite (active chlorine) | Not applicable |
| sodium hydroxide | No data available |
| Dodecanoic acid, sodium salt | No data available |
| Decanoic acid, sodium salt | No data available |
| amines, C12-18-alkyldimethyl, N-oxides | No data available |

STOT-repeated exposure

| Ingredient(s) | Affected organ(s) |
|---|---|
| sodium hypochlorite (active chlorine) | Not applicable |
| sodium hydroxide | No data available |
| Dodecanoic acid, sodium salt | No data available |
| Decanoic acid, sodium salt | No data available |
| amines, C12-18-alkyldimethyl, N-oxides | 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 hypochlorite (active chlorine) | $LC_{50}$ | 0.06 | *Oncorhynchus mykiss* | Method not given | 96 |
| sodium hydroxide | $LC_{50}$ | 35 | *Various species* | Method not given | 96 |
| Dodecanoic acid, sodium salt | | No data available | | | |
| Decanoic acid, sodium salt | | No data available | | | |
| amines, C12-18-alkyldimethyl, N-oxides | | No data available | | | |

Aquatic short-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| sodium hypochlorite (active chlorine) | $EC_{50}$ | 0.035 | *Ceriodaphnia dubia* | OECD 202 (EU C.2) | 48 |
| sodium hydroxide | $EC_{50}$ | 40.4 | *Ceriodaphnia sp.* | Method not given | 48 |
| Dodecanoic acid, sodium salt | | No data available | | | |
| Decanoic acid, sodium salt | | No data available | | | |
| amines, C12-18-alkyldimethyl, N-oxides | | No data available | | | |

Aquatic short-term toxicity - algae

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| sodium hypochlorite (active chlorine) | NOEC | 0.0021 | *Not specified* | Method not given | 168 |
| sodium hydroxide | $EC_{50}$ | 22 | *Photobacterium phosphoreum* | Method not given | 0.25 |
| Dodecanoic acid, sodium salt | | No data available | | | |
| Decanoic acid, sodium salt | | No data available | | | |
| amines, C12-18-alkyldimethyl, N-oxides | | No data available | | | |

Aquatic short-term toxicity - marine species

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (days) |
|---|---|---|---|---|---|
| sodium hypochlorite (active chlorine) | $EC_{50}$ | 0.026 | *Crassostrea virginica* | Method not given | 2 |
| sodium hydroxide | | No data available | | | |
| Dodecanoic acid, sodium salt | | No data available | | | |
| Decanoic acid, sodium salt | | No data available | | | |
| amines, C12-18-alkyldimethyl, N-oxides | | No data available | | | |

Impact on sewage plants - toxicity to bacteria

| Ingredient(s) | Endpoint | Value | Inoculum | Method | Exposure |
|---|---|---|---|---|---|

| | | (mg/l) | | | time |
|---|---|---|---|---|---|
| sodium hypochlorite (active chlorine) | | 0.375 | *Activated sludge* | Method not given | |
| sodium hydroxide | | No data available | | | |
| Dodecanoic acid, sodium salt | | No data available | | | |
| Decanoic acid, sodium salt | | No data available | | | |
| amines, C12-18-alkyldimethyl, N-oxides | | No data available | | | |

**Aquatic long-term toxicity**

Aquatic long-term toxicity - fish

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|---|---|---|---|---|---|---|
| sodium hypochlorite (active chlorine) | NOEC | 0.04 | *Menidia pelinsulae* | Method not given | 96 hour(s) | |
| sodium hydroxide | | No data available | | | | |
| Dodecanoic acid, sodium salt | | No data available | | | | |
| Decanoic acid, sodium salt | | No data available | | | | |
| amines, C12-18-alkyldimethyl, N-oxides | | No data available | | | | |

Aquatic long-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|---|---|---|---|---|---|---|
| sodium hypochlorite (active chlorine) | NOEC | 0.007 | *Crassostrea virginica* | Method not given | 15 day(s) | |
| sodium hydroxide | | No data available | | | | |
| Dodecanoic acid, sodium salt | | No data available | | | | |
| Decanoic acid, sodium salt | | No data available | | | | |
| amines, C12-18-alkyldimethyl, N-oxides | | No data 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 |
|---|---|---|---|---|---|---|
| sodium hypochlorite (active chlorine) | | No data available | | | | |
| sodium hydroxide | | No data available | | | | |
| Dodecanoic acid, sodium salt | | No data available | | | | |
| Decanoic acid, sodium salt | | No data available | | | | |
| amines, C12-18-alkyldimethyl, N-oxides | | 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 hypochlorite (active chlorine) | | 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 hypochlorite (active chlorine) | | No data available | | | | |
| sodium hydroxide | | No data available | | | | |

Terrestrial toxicity - birds, if available:

| Ingredient(s) | Endpoint | Value | Species | Method | Exposure | Effects observed |
|---|---|---|---|---|---|---|

| | | | | | time (days) | |
|---|---|---|---|---|---|---|
| sodium hypochlorite (active chlorine) | | 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 hypochlorite (active chlorine) | | 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 hypochlorite (active chlorine) | | 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 hypochlorite (active chlorine) | 115 day(s) | Indirect photo-oxidation | | |
| 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 hypochlorite (active chlorine) | No data available | | | |
| sodium hydroxide | No data available | | | |

Abiotic degradation - other processes, if available:

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

**Biodegradation**

Ready biodegradability - aerobic conditions

| Ingredient(s) | Inoculum | Analytical method | $DT_{50}$ | Method | Evaluation |
|---|---|---|---|---|---|
| sodium hypochlorite (active chlorine) | | | | | Not applicable (inorganic substance) |
| sodium hydroxide | | | | | Not applicable (inorganic substance) |
| Dodecanoic acid, sodium salt | | | | | Not applicable (inorganic substance) |
| Decanoic acid, sodium salt | Activated sludge, aerobe | | 90% | OECD 301D | Readily biodegradable |
| amines, C12-18-alkyldimethyl, N-oxides | | | 90% | OECD 301D | Readily biodegradable |

Ready biodegradability - anaerobic and marine conditions, if available:

| Ingredient(s) | Medium & Type | Analytical method | $DT_{50}$ | Method | Evaluation |
|---|---|---|---|---|---|
| sodium hypochlorite (active chlorine) | | | | | No data available |
| sodium hydroxide | | | | | No data available |
| amines, C12-18-alkyldimethyl, N-oxides | | | | | Readily biodegradable |

Degradation in relevant environmental compartments, if available:

| Ingredient(s) | Medium & Type | Analytical method | $DT_{50}$ | Method | Evaluation |
|---|---|---|---|---|---|
| sodium hypochlorite (active chlorine) | | | | | 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 hypochlorite (active chlorine) | -3.42 | Method not given | No bioaccumulation expected | |
| sodium hydroxide | No data available | | Not relevant, does not bioaccumulate | |
| Dodecanoic acid, sodium salt | No data available | | | |
| Decanoic acid, sodium salt | No data available | | | |
| amines, C12-18-alkyldimethyl, N-oxides | No data available | | | |

Bioconcentration factor (BCF)

| Ingredient(s) | Value | Species | Method | Evaluation | Remark |
|---|---|---|---|---|---|
| sodium hypochlorite (active chlorine) | No data available | | | | |
| sodium hydroxide | No data available | | | | |
| Dodecanoic acid, sodium salt | No data available | | | | |
| Decanoic acid, sodium salt | No data available | | | | |
| amines, C12-18-alkyldimethyl, N-oxides | 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 hypochlorite (active chlorine) | 1.12 | | | | High potential for mobility in soil |
| sodium hydroxide | No data available | | | | Mobile in soil |
| Dodecanoic acid, sodium salt | No data available | | | | |
| Decanoic acid, sodium salt | No data available | | | | |
| amines, C12-18-alkyldimethyl, N-oxides | 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 15* - alkalines.

**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 or ID number:** 3266

**14.2 UN proper shipping name:**

Corrosive liquid, basic, inorganic, n.o.s. ( sodium hydroxide , sodium hypochlorite )

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

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

**14.4 Packing group:** II
**14.5 Environmental hazards:**
**Environmentally hazardous:** Yes
**Marine pollutant:** Yes
**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:** C5
**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**
chlorine-based bleaching agents, soap, 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:** E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

**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:** MS1005363 **Version:** 02.0 **Revision:** 2025-05-02

**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, 1, 8, 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
- 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.
- H315 - Causes skin irritation.
- H318 - Causes serious eye damage.
- H319 - Causes serious eye irritation.
- H400 - Very toxic to aquatic life.
- H410 - Very toxic to aquatic life with long lasting effects.
- H411 - Toxic to aquatic life with long lasting effects.
- EUH031 - Contact with acids liberates toxic gas.

**End of Safety Data Sheet**