



Safety Data Sheet

9321: DOMESTOS REGULAR

Revision: 2019-11-11

Version: 01.0

SECTION 1: Identification of the substance/mixture and supplier

1.1 Product identifier

Product name: DOMESTOS REGULAR

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

1.2 Recommended use and restrictions on use

Identified uses:

Hospital grade disinfectant

Restrictions of use:

Uses other than those identified are not recommended

1.3 Details of the supplier

Primepac Industrial Limited

15 Orbit Drive, Mairangi Bay, Auckland 0632 New Zealand

Telephone: 0800 277 772

Website: www.primepac.co.nz

1.4 Emergency telephone number

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

Call 0800 243 622 (24 hrs)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

HSNO Classification

8.1A - Corrosive to metals

8.2B - Corrosive to dermal tissue

8.3A - Corrosive to ocular tissue

9.1A - Very ecotoxic in the aquatic environment

GHS Equivalent Classification

Skin corrosion, Category 1B

Serious eye damage, Category 1

Acute aquatic toxicity, Category 1

Corrosive to metals, Category 1

2.2 Label elements



Signal word: Danger

Hazard statements:

H314 - Causes severe skin burns and eye damage.

H400 - Very toxic to aquatic life.

H290 - May be corrosive to metals.

Prevention statement(s):

P233 - Keep container tightly closed.

P234 - Keep only in original packaging.

P260 - Do not breathe vapours.

P264 - Wash face, hands and any exposed skin thoroughly after handling.

P280 - Wear protective gloves, protective clothing and eye or face protection.

Response statement(s):

P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

DOMESTOS REGULAR

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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.

P321 - Specific treatment (see supplemental first aid instructions on this label).

P363 - Wash contaminated clothing before reuse.

P390 - Absorb spillage to prevent material damage.

Storage statement(s):

P405 - Store locked up.

P406 - Store in corrosive-resistant container with a resistant inner liner.

Disposal statement(s):

P501 - Dispose of unused content as chemical waste.

2.3 Other hazards

No other hazards known.

SECTION 3: Composition/information on ingredients**3.1 Substances / Mixtures**

| Ingredient(s) | CAS number | EC number | Weight percent |
|--|------------|-----------|----------------|
| sodium hypochlorite | 7681-52-9 | 231-668-3 | 3-10 |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | - | 931-292-6 | 1-3 |
| sodium hydroxide | 1310-73-2 | 215-185-5 | 1-3 |

Non-hazardous ingredients are the remainder and add up to 100%.

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

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:

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.

First aid facilities:

Shower and eyewash facilities should be considered in a workplace where necessary. Eyewash facilities should be considered in a workplace where necessary.

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

No known effects or symptoms in normal use.

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.

Poison Information Center: Call 0800 764 766 (0800 POISON)

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

DOMESTOS REGULAR

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.

5.4 Hazchem code

2X

2 - Fine water spray

X - Liquid-tight chemical protective clothing and breathing apparatus. Contain.

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, gloves and eye/face protection.

6.2 Environmental precautions

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, 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:

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 advised 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 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. 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) | Ceiling value(s) |
|------------------|--------------------|---------------------|---------------------|
| sodium hydroxide | | | 2 mg/m ³ |

Biological limit values, if 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:

Avoid direct contact and/or splashes where possible. Train personnel.

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

Safety glasses or goggles (EN 166). The use of a full-face shield or other full-face protection is

DOMESTOS REGULAR

| | |
|---|--|
| Hand protection: | strongly recommended when handling open containers or if splashes may occur. 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

| | Method / remark |
|---|--|
| Physical State: Liquid | |
| Appearance: Viscous liquid | |
| Colour: Clear, Pale Straw | |
| Odour: Slightly perfumed | |
| Odour threshold: Not applicable | |
| pH ≈ 13.2 (neat) | |
| Melting point/freezing point (°C): Not determined | Not relevant to classification of this product |
| Initial boiling point and boiling range (°C): Not determined | |
| Flammability (liquid): Not flammable. | |
| Flash point (°C): Not applicable. | |
| Sustained combustion: Not applicable. (UN Manual of Tests and Criteria, section 32, L.2) | |
| Evaporation rate: Not determined | Not relevant to classification of this product |
| Flammability (solid, gas): Not applicable to liquids | |
| Upper/lower flammability limit (%): Not determined | |
| Vapour pressure: Not determined | |
| Vapour density: Not determined | Not relevant to classification of this product |
| Relative density: ≈ 1.084 (20 °C) | |
| Solubility in / Miscibility with Water: Not miscible or difficult to mix | |
| Partition coefficient: n-octanol/water No information available. Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3 | |
| Autoignition temperature: Not determined | |
| Decomposition temperature: Not applicable. | |
| Viscosity: Not determined | |
| Explosive properties: Not explosive. | |
| Oxidising properties: Not oxidising | |

9.2 Other information

Surface tension (N/m): Not determined
Corrosion to metals: Corrosive

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

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): >5000

ATE - Dermal (mg/kg): >5000

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) |
|--|------------------|-------------------|---------|-------------------|-------------------|
| sodium hypochlorite | LD ₅₀ | 1100 | Rat | OECD 401 (EU B.1) | 90 |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | LD ₅₀ | > 300 - 2000 | Rat | OECD 401 (EU B.1) | |
| sodium hydroxide | | No data available | | | |

Acute dermal toxicity

| Ingredient(s) | Endpoint | Value (mg/kg) | Species | Method | Exposure time (h) |
|--|------------------|---------------|---------|-------------------|-------------------|
| sodium hypochlorite | LD ₅₀ | > 20000 | Rabbit | OECD 402 (EU B.3) | |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | LD ₅₀ | > 5000 | Rat | OECD 402 (EU B.3) | |
| sodium hydroxide | LD ₅₀ | 1350 | Rabbit | Method not given | |

Acute inhalative toxicity

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|--|------------------|-------------------|---------|-------------------|-------------------|
| sodium hypochlorite | LC ₅₀ | > 10.5 (vapour) | Rat | OECD 403 (EU B.2) | 1 |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | | No data available | | | |
| sodium hydroxide | | No data available | | | |

Irritation and corrosivity

Skin irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|--|-----------|---------|-------------------|---------------|
| sodium hypochlorite | Corrosive | Rabbit | OECD 404 (EU B.4) | |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | Irritant | Rabbit | OECD 404 (EU B.4) | |
| sodium hydroxide | Corrosive | Rabbit | Method not given | |

Eye irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|--|---------------|---------|-------------------|---------------|
| sodium hypochlorite | Severe damage | Rabbit | OECD 405 (EU B.5) | |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | Severe damage | Rabbit | OECD 405 (EU B.5) | |
| sodium hydroxide | Corrosive | Rabbit | Method not given | |

Respiratory tract irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|--|---------------------------------|---------|--------|---------------|
| sodium hypochlorite | Irritating to respiratory tract | | | |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | No data available | | | |
| sodium hydroxide | No data available | | | |

Sensitisation

Sensitisation by skin contact

| Ingredient(s) | Result | Species | Method | Exposure time (h) |
|--|-----------------|------------|----------------------------------|-------------------|
| sodium hypochlorite | Not sensitising | Guinea pig | OECD 406 (EU B.6) / Buehler test | |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | Not sensitising | Guinea pig | OECD 406 (EU B.6) / Buehler test | |
| sodium hydroxide | Not sensitising | | Human repeated patch test | |

Sensitisation by inhalation

| Ingredient(s) | Result | Species | Method | Exposure time |
|---------------------|-----------------|---------|--------|---------------|
| sodium hypochlorite | Not sensitising | | | |

DOMESTOS REGULAR

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|--|-------------------|--|--|--|
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | No data available | | | |
| sodium hydroxide | 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 | No evidence for mutagenicity | OECD 471 (EU B.12/13) | No evidence for mutagenicity, negative test results | OECD 474 (EU B.12) |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | No evidence for mutagenicity, negative test results | OECD 471 (EU B.12/13) | 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) |

Carcinogenicity

| Ingredient(s) | Effect |
|--|--|
| sodium hypochlorite | No evidence for carcinogenicity, negative test results |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | No evidence for carcinogenicity, negative test results |
| sodium hydroxide | 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 hypochlorite | 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 |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | NOAEL | Teratogenic effects | 25 | Rat | Non guideline test | | |
| sodium hydroxide | | | No data available | | | | No evidence for developmental toxicity 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 hypochlorite | NOAEL | 50 | Rat | OECD 408 (EU B.26) | 90 | |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | NOAEL | 13 | | OECD 422, oral | | |
| sodium hydroxide | | 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 | | No data available | | | | |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | | No data available | | | | |
| sodium hydroxide | | 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 | | No data available | | | | |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | | No data available | | | | |
| sodium hydroxide | | 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 | | | No data available | | | | | |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | | | No data available | | | | | |
| sodium hydroxide | | | No data available | | | | | |

STOT-single exposure

DOMESTOS REGULAR

| Ingredient(s) | Affected organ(s) |
|--|-------------------|
| sodium hypochlorite | Not applicable |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | No data available |
| sodium hydroxide | No data available |

STOT-repeated exposure

| Ingredient(s) | Affected organ(s) |
|--|-------------------|
| sodium hypochlorite | Not applicable |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | No data available |
| sodium hydroxide | 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.

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 | LC ₅₀ | 0.06 | <i>Oncorhynchus mykiss</i> | Method not given | 96 |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | LC ₅₀ | > 2.67 - 3.46 | <i>Fish</i> | OECD 203, static | 96 |
| sodium hydroxide | LC ₅₀ | 35 | <i>Various species</i> | Method not given | 96 |

Aquatic short-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|--|------------------|--------------|-----------------------------|-------------------|-------------------|
| sodium hypochlorite | EC ₅₀ | 0.035 | <i>Ceriodaphnia dubia</i> | OECD 202 (EU C.2) | 48 |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | EC ₅₀ | 3.1 | <i>Daphnia magna</i> Straus | OECD 202 (EU C.2) | 48 |
| sodium hydroxide | EC ₅₀ | 40.4 | <i>Ceriodaphnia sp.</i> | Method not given | 48 |

Aquatic short-term toxicity - algae

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|--|------------------|--------------|-----------------------------------|------------------|-------------------|
| sodium hypochlorite | NOEC | 0.0021 | <i>Not specified</i> | Method not given | 168 |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | EC ₅₀ | 0.1428 | <i>Not specified</i> | Method not given | 72 |
| sodium hydroxide | EC ₅₀ | 22 | <i>Photobacterium phosphoreum</i> | Method not given | 0.25 |

Aquatic short-term toxicity - marine species

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (days) |
|--|------------------|-------------------|------------------------------|------------------|----------------------|
| sodium hypochlorite | EC ₅₀ | 0.026 | <i>Crassostrea virginica</i> | Method not given | 2 |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | | No data available | | | - |
| sodium hydroxide | | No data available | | | - |

Impact on sewage plants - toxicity to bacteria

| Ingredient(s) | Endpoint | Value (mg/l) | Inoculum | Method | Exposure time |
|--|------------------|-------------------|-------------------------|--------------------|---------------|
| sodium hypochlorite | | 0.375 | <i>Activated sludge</i> | Method not given | |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | EC ₁₀ | > 24 | <i>Bacteria</i> | Non guideline test | 18 hour(s) |
| sodium hydroxide | | No data available | | | |

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|---------------|----------|--------------|---------|--------|---------------|------------------|
|---------------|----------|--------------|---------|--------|---------------|------------------|

DOMESTOS REGULAR

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|--|------|-------------------|---------------------------|------------------|------------|--|
| sodium hypochlorite | NOEC | 0.04 | <i>Menidia pelinsulae</i> | Method not given | 96 hour(s) | |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | NOEC | 0.42 | <i>Not specified</i> | | 302 day(s) | |
| sodium hydroxide | | No data available | | | | |

Aquatic long-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|--|----------|-------------------|------------------------------|------------------|---------------|------------------|
| sodium hypochlorite | NOEC | 0.007 | <i>Crassostrea virginica</i> | Method not given | 15 day(s) | |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | NOEC | 0.7 | <i>Daphnia magna</i> | Method not given | 21 day(s) | |
| sodium hydroxide | | 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 | | No data available | | | - | |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | | No data available | | | - | |
| sodium hydroxide | | 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 | | No data available | | | - | |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | | 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 | | No data available | | | - | |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | | 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 hypochlorite | | No data available | | | - | |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | | 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 | | No data available | | | - | |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | | 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 | | No data available | | | - | |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | | No data available | | | - | |
| sodium hydroxide | | No data available | | | - | |

DOMESTOS REGULAR

| | | | | | |
|--|--|-----------|--|--|--|
| | | 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 | 115 day(s) | Indirect photo-oxidation | | |
| sodium hydroxide | 13 second(s) | Method not given | Rapidly photodegradable | |

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

Biodegradation

Ready biodegradability - aerobic conditions

| Ingredient(s) | Inoculum | Analytical method | DT ₅₀ | Method | Evaluation |
|--|----------|----------------------------|------------------|-----------|--------------------------------------|
| sodium hypochlorite | | | | | Not applicable (inorganic substance) |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | | CO ₂ production | 90% in 28 day(s) | OECD 301B | Readily biodegradable |
| sodium hydroxide | | | | | 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 Kow)

| Ingredient(s) | Value | Method | Evaluation | Remark |
|--|-------------------|--------------------|--------------------------------------|--------|
| sodium hypochlorite | -3.42 | Method not given | No bioaccumulation expected | |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | 0.93 | (EC) 440/2008, A.8 | No bioaccumulation expected | |
| sodium hydroxide | No data available | | Not relevant, does not bioaccumulate | |

Bioconcentration factor (BCF)

| Ingredient(s) | Value | Species | Method | Evaluation | Remark |
|--|-------------------|---------|--------|------------|--------|
| sodium hypochlorite | No data available | | | | |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | No data available | | | | |
| sodium hydroxide | 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 | 1.12 | | | | High potential for mobility in soil |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | No data available | | | | Low mobility in soil |
| sodium hydroxide | No data available | | | | Mobile in soil |

12.5 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

DOMESTOS REGULAR

**ADG, IMO/IMDG, ICAO/IATA****14.1 UN number:** 3266**14.2 UN proper shipping name:**

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

14.3 Transport hazard class(es):

Transport hazard class (and subsidiary risks): 8

14.4 Packing group: III**14.5 Environmental hazards:**

Environmentally hazardous: Yes

Marine pollutant: Yes

14.6 Special precautions for user: None known.**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:** The product is not transported in bulk tankers.**Other relevant information:****Hazchem code:** 2X

This product has been classified, labelled and package in accordance with the requirements of the NZ Land Transport Rule: Dangerous Goods, ADG, 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****HSNO Approval Number**

HSR002526.

Group standard

Cleaning Products (Corrosive) Group Standard 2017

Inventory Listing(s)

New Zealand: NZIoC (New Zealand Inventory of Chemicals)

All components are listed on the NZIoC inventory, or are exempt

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: MS32000619**Version:** 01.0**Revision:** 2019-11-11

Exposure standards - Time Weighted Average (TWA) or Workplace Exposure Standard (WES) (NZ): Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).

Abbreviations and acronyms:

- DNEL - Derived No Effect Limit
- AUH - GHS Specific hazard statement
- PNEC - Predicted No Effect Concentration
- ATE - Acute Toxicity Estimate
- LD50 - Lethal Dose, 50% / Median Lethal dose
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- EC50 - effective concentration, 50%
- NOEL - No observed effect level
- NOAEL - No observed adverse effect level
- STOT-RE - Specific target organ toxicity (repeated exposure)
- STOT-SE - Specific target organ toxicity (single exposure)
- EC No. - European Community Number
- OECD - Organization for Economic Cooperation and Development

End of Safety Data Sheet