Domestos Professional Drain Unblocker Gel (Diversey)

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Safety Data Sheet

According to Regulation (EC) No 1907/2006

Domestos Professional Drain Unblocker Gel

Revision: 2019-07-17 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

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

Identified uses:

AISE-P607 - Drain cleaner. Manual process

AISE-C13 - Drain products (powder, gel, liquid) for consumer use

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

1.3 Details of the supplier of the safety data sheet

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

Contact details

Diversey Ltd

Weston Favell Centre, Northampton NN3 8PD, United Kingdom

Tel: 01604 405311, Fax: 01604 406809

Regulatory Email: customerservice.uk@diversey.com

1.4 Emergency telephone number

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

For medical or environmental emergency only:

call 0800 052 0185

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

EUH031

Skin Corr. 1B (H314)

Eye Dam. 1 (H318)

Aquatic Acute 1 (H400)

Aquatic Chronic 2 (H411)

Met. Corr. 1 (H290)

2.2 Label elements

Signal word: Danger.

Contains sodium hypochlorite (Sodium Hypochlorite), sodium hydroxide (Sodium Hydroxide)

Hazard statements:

EUH031 - Contact with acids liberates toxic gas.

H314 - Causes severe skin burns and eye damage.

H410 - Very toxic to aquatic life with long lasting effects.

H290 - May be corrosive to metals.

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. The product does not meet the criteria for PBT or vPvB in accordance with Regulation (EC) No 1907/2006, Annex

XIII.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Ingredient(s) EC number CAS number REACH number Classification Notes Weight

percent

sodium hypochlorite 231-668-3 7681-52-9 01-2119488154-34 EUH031 3-10

Skin Corr. 1B (H314)

STOT SE 3 (H335)

Eye Dam. 1 (H318)

Aquatic Acute 1 (H400)

Aquatic Chronic 1

(H410)

Met. Corr. 1 (H290)

sodium hydroxide 215-185-5 1310-73-2 01-2119457892-27 Skin Corr. 1A (H314) 3-10

Met. Corr. 1 (H290)

Dodecanoic acid, sodium salt 211-082-4 629-25-4 - Skin Irrit. 2 (H315) 1-3

Eye Dam. 1 (H318)

Decanoic acid, sodium salt 213-688-4 1002-62-6 - Skin Irrit. 2 (H315) 1-3

Eye Irrit. 2 (H319)

amines, C12-18-alkyldimethyl, N-oxides 273-281-2 68955-55-5 - Acute Tox. 4 (H302) 1-3

Skin Irrit. 2 (H315)

Eye Dam. 1 (H318)

Aquatic Acute 1 (H400)

Aquatic Chronic 2

(H411)

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

[1] Exempted: ionic mixture. See Regulation (EC) No 1907/2006, Annex V, paragraph 3 and 4. This salt is potentially present, based on calculation, and included

for classification and labelling purposes only. Each starting material of the ionic mixture is registered, as required.

[2] Exempted: included in Annex IV of Regulation (EC) No 1907/2006.

[3] Exempted: Annex V of Regulation (EC) No 1907/2006.

[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: 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: 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.

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. In case of an incident in a confined area wear suitable respiratory protection. 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. Dilute with plenty of water. 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

Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust). Ensure adequate ventilation.

6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Measures to prevent fire and explosions:

No special precautions required.

Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

Advices on general occupational hygiene:

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

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)	UK - Long term value(s)	UK - 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 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	-	-	-	0.26
sodium hydroxide	-	-	-	-
Dodecanoic acid, sodium salt	No data available	No data available	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 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	-	-	0.5 %	-
sodium hydroxide	2 %	-	-	-
Dodecanoic acid, sodium salt	No data available	No data available	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 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	-	-	0.5 %	-
sodium hydroxide	2 %	-	-	-
Dodecanoic acid, sodium salt	No data available	No data available	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 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	3.1	3.1	1.55	1.55
sodium hydroxide	No data available	-	1	-
Dodecanoic acid, sodium salt	No data available	No data available	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 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	3.1	3.1	1.55	1.55
sodium hydroxide	-	-	1	-
Dodecanoic acid, sodium salt	No data available	No data available	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

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	0.00021	0.000042	0.00026	0.03
sodium hydroxide	-	-	-	-
Dodecanoic acid, sodium salt	No data available	No data available	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

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m3)
sodium hypochlorite	-	-	-	No data available
sodium hydroxide	-	-	-	-
Dodecanoic acid, sodium salt	No data available	No data available	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

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.

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 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.
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
pH: > 12 (neat) ISO 4316
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 Method Atmospheric pressure
(°C) (hPa)
sodium hypochlorite Product decomposes Method not given 1013
before boiling
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 (liquid): Not flammable.
Flash point (°C): > 100 °C Weight of evidence
Sustained combustion: The product does not sustain combustion
(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 See substance data
Substance data, flammability or explosive limits, if available:
Ingredient(s) Lower limit Upper limit
(% vol) (% vol)
sodium hypochlorite - -
Method / remark
Vapour pressure: Not determined See substance data
Substance data, vapour pressure
Ingredient(s) Value Method Temperature
(Pa) (°C)
sodium hypochlorite 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

Vapour density: Not determined Not relevant to classification of this product
Relative density: ≈ 1.00 (20 °C) OECD 109 (EU A.3)
Solubility in / Miscibility with Water: Fully miscible
Substance data, solubility in water
Ingredient(s) Value Method Temperature
(g/l) (°C)
sodium hypochlorite 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
Autoignition temperature: Not determined
Decomposition temperature: Not applicable.
Viscosity: ≈ 2000 mPa.s (20 °C) DM-006 Viscosity - Standard
Explosive properties: Not explosive. Vapours may form explosive mixtures with air.
Oxidising properties: Not oxidising.
9.2 Other information
Surface tension (N/m): Not determined Not relevant to classification of this product
Corrosion to metals: Corrosive Weight of evidence
Substance data, dissociation constant, if available:
Ingredient(s) Value Method Temperature
(°C)
sodium hypochlorite 7.53 (pKa) Method not given
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
Contact with acids liberates toxic gas. Reacts with acids. Keep away from acids.
10.6 Hazardous decomposition products
None known under normal storage and use conditions.
SECTION 11: Toxicological information
11.1 Information on toxicological effects
Mixture data:.
Relevant calculated ATE(s):
ATE - Oral (mg/kg): >2000
Substance data, where relevant and available, are listed below:.
Acute toxicity
Acute oral toxicity
Ingredient(s) Endpoint Value Species Method Exposure
(mg/kg) time (h)
sodium hypochlorite LD 50 1100 Rat OECD 401 (EU B.1) 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 LD 50 1064 Rat Method not given
Acute dermal toxicity
Ingredient(s) Endpoint Value Species Method Exposure
(mg/kg) time (h)
sodium hypochlorite LD 50 > 20000 Rabbit OECD 402 (EU B.3)
sodium hydroxide LD 50 1350 Rabbit 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
Acute inhalative toxicity
Ingredient(s) Endpoint Value Species Method Exposure
(mg/l) time (h)
sodium hypochlorite 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
Irritation and corrosivity
Skin irritation and corrosivity
Ingredient(s) Result Species Method Exposure time
sodium hypochlorite 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 No data available
Eye irritation and corrosivity
Ingredient(s) Result Species Method Exposure time
sodium hypochlorite 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 No data available
Respiratory tract irritation and corrosivity
Ingredient(s) Result Species Method Exposure time
sodium hypochlorite 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 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 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 Result (in-vivo) Method
(in-vitro) (in-vivo)
sodium hypochlorite No evidence for mutagenicity OECD 471 (EUNo evidence for mutagenicity, negative OECD 474 (EU
B.12/13) test results B.12)
sodium hydroxide No evidence for mutagenicity, negative DNA repair testNo evidence for mutagenicity, negative OECD 474 (EU
test results on rat test results B.12) OECD
hepatocytes 475 (EU B.11)
OECD 473
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 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 Species Method Exposure Remarks and other effects
(mg/kg bw/d) time reported
sodium hypochlorite NOAEL Developmental toxicity Impaired 5 (Cl) Rat OECD 414 No evidence for reproductive
fertility (EU B.31), toxicity
oral OECD
415 (EU
B.34), oral

sodium hydroxide No data No evidence for developmental
available toxicity No evidence for
reproductive toxicity
Dodecanoic acid, No data
sodium salt available
Decanoic acid, sodium No data
salt available
amines, No data
C12-18-alkyldimethyl, available
N-oxides
Repeated dose toxicity
Sub-acute or sub-chronic oral toxicity
Ingredient(s) Endpoint Value Species Method Exposure Specific effects and organs
(mg/kg bw/d) time (days) affected
sodium hypochlorite NOAEL 50 Rat OECD 408 (EU 90
B.26)
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 Species Method Exposure Specific effects and organs
(mg/kg bw/d) time (days) affected
sodium hypochlorite 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 Species Method Exposure Specific effects and organs
(mg/kg bw/d) time (days) affected
sodium hypochlorite 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 Endpoint Value Species Method Exposure Specific effects and Remark

route (mg/kg bw/d) time organs affected
sodium hypochlorite No data
available
sodium hydroxide No data
available

Dodecanoic acid, No data
sodium salt available
Decanoic acid, sodium No data
salt available
amines, No data
C12-18-alkyldimethyl, available
N-oxides
STOT-single exposure
Ingredient(s) Affected organ(s)
sodium hypochlorite 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 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. If relevant, see section 9 for dynamic viscosity and relative density
of the product.
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 Species Method Exposure
(mg/l) time (h)
sodium hypochlorite LC 50 0.06 Oncorhynchus Method not given 96
mykiss
sodium hydroxide LC 50 35 Various Method not given 96
species
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 Species Method Exposure
(mg/l) time (h)
sodium hypochlorite EC 50 0.035 Ceriodaphnia OECD 202 (EU C.2) 48
dubia
sodium hydroxide EC 50 40.4 Ceriodaphnia Method not given 48
sp.
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 Species Method Exposure
(mg/l) time (h)
sodium hypochlorite NOEC 0.0021 Not specified Method not given 168
sodium hydroxide EC 50 22 Photobacteriu Method not given 0.25
m
phosphoreum
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 Species Method Exposure
(mg/l) time (days)
sodium hypochlorite EC 50 0.026 Crassostrea Method not given 2
virginica
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 0.375 Activated Method not given
sludge
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 Species Method Exposure Effects observed
(mg/l) time
sodium hypochlorite NOEC 0.04 Menidia Method not 96 hour(s)
pelinsulae 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 - crustacea
Ingredient(s) Endpoint Value Species Method Exposure Effects observed
(mg/l) time
sodium hypochlorite NOEC 0.007 Crassostrea Method not 15 day(s)
virginica 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 toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:
Ingredient(s) Endpoint Value Species Method Exposure Effects observed
(mg/kg dw time (days)
sediment)
sodium hypochlorite 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 Species Method Exposure Effects observed
(mg/kg dw time (days)

soil)

sodium hypochlorite No data -
available
sodium hydroxide No data -
available
Terrestrial toxicity - plants, if available:
Ingredient(s) Endpoint Value Species Method Exposure Effects observed
(mg/kg dw time (days)
soil)
sodium hypochlorite 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 No data -
available
sodium hydroxide No data -
available
Terrestrial toxicity - beneficial insects, if available:
Ingredient(s) Endpoint Value Species Method Exposure Effects observed
(mg/kg dw time (days)
soil)
sodium hypochlorite No data -
available
sodium hydroxide No data -
available
Terrestrial toxicity - soil bacteria, if available:
Ingredient(s) Endpoint Value Species Method Exposure Effects observed
(mg/kg dw time (days)
soil)
sodium hypochlorite 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 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 DT 50 Method Evaluation
method
sodium hypochlorite Not applicable (inorganic
substance)
sodium hydroxide Not applicable (inorganic
substance)
Dodecanoic acid, sodium salt Not applicable (inorganic

substance)
Decanoic acid, sodium salt Activated sludge, 90% OECD 301D Readily biodegradable
aerobe
amines, C12-18-alkyldimethyl, N-oxides 90% OECD 301D Readily biodegradable
Ready biodegradability - anaerobic and marine conditions, if available:
Ingredient(s) Medium & Type Analytical DT 50 Method Evaluation
method
amines, C12-18-alkyldimethyl, N-oxides Readily biodegradable
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
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 No data available
sodium hydroxide No data available
Dodecanoic acid, No data available
sodium salt
Decanoic acid, sodium No data available
salt
amines, No data available
C12-18-alkyldimethyl,
N-oxides
12.4 Mobility in soil
Adsorption/Desorption to soil or sediment
Ingredient(s) Adsorption Desorption Method Soil/sediment Evaluation
coefficient coefficient type
Log Koc Log Koc(des)
sodium hypochlorite 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 Other adverse effects
No other adverse effects known.
SECTION 13: Disposal considerations
13.1 Waste treatment methods
Waste from residues / unused The concentrated contents or contaminated packaging should be disposed of by a certified handler
products: 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: 3266

14.2 UN proper shipping name:

Corrosive liquid, basic, inorganic, n.o.s. (sodium hydroxide , 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 Transport in bulk according to Annex II of MARPOL and the IBC Code: 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

Authorisations or restrictions (Regulation (EC) No 1907/2006, Title VII respectively Title VIII): Not applicable.

UFI: 27H3-K0J0-600D-3MPU

Ingredients according to EC Detergents Regulation 648/2004

chlorine-based bleaching agents 5 - 15 %

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.

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: MS1003711 Version: 02.0 Revision: 2019-07-17

Reason for revision:

This data sheet contains changes from the previous version in section(s):, 1, 2, 3, 8, 9, 11, 12, 16

Classification procedure

The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No

1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for

classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11

for toxicological information and section 12 for ecological information.

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

• 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.

• H335 - May cause respiratory irritation.

• H400 - Very toxic to aquatic life.

• H402 - Harmful 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.

Abbreviations and acronyms:

• AISE - The international Association for Soaps, Detergents and Maintenance Products

• DNEL - Derived No Effect Limit

• EUH - CLP Specific hazard statement

• 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

• 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

• OECD - Organization for Economic Cooperation and Development

End of Safety Data Sheet