



SAFETY DATA SHEET

Conforms to Regulation. 1179

DOMESTOS REGULAR

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name DOMESTOS REGULAR
Product code 21123345
Product description Toilet Cleaner

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

Industrial uses: Uses of substances as such or in preparations at industrial sites

Consumer uses: Private households (= general public = consumers)

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

1.3 Details of the supplier of the safety data sheet

Unilever South Africa (Pty) Ltd
15 Nollsworth Crescent
4051 La Lucia
SOUTH AFRICA

e-mail address of person responsible for this SDS Zama.Duma@unilever.com

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number 031 570 2223 / +27 31 570 2223 (Internal emergency control number)

Supplier

Telephone number Homecare 0860 572 908 Personal Care 0860 572 861
Hours of operation -

2. Hazards identification**2.1 Classification of the substance or mixture**

Product definition Mixture

Classification according to Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification Xi, R36/38

See Section 16 for the full text of the R phrases or H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard symbol or symbols



Indication of danger Xi Irritant

Risk phrases R36/38 - Irritating to eyes and skin.

Safety phrases S2 - Keep out of the reach of children.
S24/25 - Avoid contact with skin and eyes.
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S46 - If swallowed, seek medical advice immediately and show this container or label
EUH206 Warning! Do not use together with other products. May release dangerous gases (chlorine).

Supplemental label elements Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant fastenings Not applicable.

Tactile warning of danger Not applicable.

2.3 Other hazards

Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII Not applicable.

Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII Not applicable.

3. Composition/information on ingredients

Substance/mixture : Mixture

Product/ingredient name	Identifiers	%	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
Sodium Hypochlorite	RRN : 01-2119488154-34 EC:231-668-3 CAS : 7681-52-9 Index:017-011-00-1	1 - 5	C; R34 R31 N; R50	Aquatic Acute, 1, H400 Skin Corr./Irrit., 1B, H314 EUH031	[1]
Sodium Laureth Sulfate	RRN : 01-2119488639-16 EC:221-416-0	1 - 5	Xi; R38 Xi; R41	Skin Corr./Irrit., 2, H315 Eye Dam./Irrit., 1, H318	[1]

	CAS : 68891-38-3 Index:			Aquatic Chronic, 3, H412	
Sodium hydroxide	RRN : 01- 2119457892-27 EC:215-185-5 CAS : 1310-73-2 Index:011-002-00-6	0.1 - 1	C; R35	Skin Corr./Irrit., 1A, H314 Skin Corr./Irrit., 1B, H314 Eye Dam./Irrit., 2, H319 Skin Corr./Irrit., 2, H315	[1][2]

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] PBT-substance

[4] vPvB-substance

See Section 16 for the full text of the R phrases or H statements declared above.

Occupational exposure limits, if available, are listed in Section 8. For confidentiality reasons, the levels of components listed in Section 3 are given in percentage bands. The bandings do not reflect potential variation in composition of this formulation, but are used simply to mask the exact component levels, which we consider to be proprietary information. The classification given in Section 2 and 15 reflects the exact composition of this mixture.

* exempted according to REACH Art. 2(7) and Annex V; each starting material of the ionic mixture is registered, if required

4. First aid measures

4.1 Description of first aid measures

Eye contact

Get medical attention immediately. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

Inhalation

Move exposed person to fresh air.

Keep person warm and at rest.

If unconscious, place in recovery position and get medical attention immediately.

Maintain an open airway.

Loosen tight clothing such as a collar, tie, belt or waistband.

If chlorine is released (following contact with acid) get medical attention immediately.

Oxygen may be administered if breathing is difficult.

Get medical attention if adverse health effects persist or are severe.

Skin contact

Flush contaminated skin with plenty of water. Continue to rinse for at least 10 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.

Ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Keep person warm and at rest.

If material has been swallowed and the exposed person is conscious, give small quantities of water to drink.

Do not induce vomiting unless directed to do so by medical personnel.

Get medical attention if adverse health effects persist or are severe.

Protection of first-aiders

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact

Severely corrosive to the eyes. Causes severe burns.

Inhalation

May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.

Skin contact

Severely corrosive to the skin. Causes burns.

Ingestion

May cause burns to mouth, throat and stomach.

Over-exposure signs/symptoms

Eye contact

Adverse symptoms may include the following:

pain
watering
redness

Inhalation

No specific data.

Skin contact

Adverse symptoms may include the following:

pain or irritation
redness
blistering may occur

Ingestion

Adverse symptoms may include the following:

stomach pains

4.3 Indication of any immediate medical attention and special treatment needed**Notes to physician**

No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments

No specific treatment.

5. Firefighting measures**5.1 Extinguishing media****Suitable extinguishing media**

Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous combustion products

No specific data.

5.3 Advice for firefighters

Special precautions for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. This material is very toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

Additional information

Not available.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also Section 8 for additional information on hygiene

measures.

6.2 Environmental precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and materials for containment and cleaning up

Small spill

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Avoid contact with acids. May be corrosive to metals.

Large spill

Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. Avoid breathing vapour or mist. Manipulate in a well-ventilated area. Avoid contact with acids. May be corrosive to metals.

6.4 Reference to other sections

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

7. Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Refer to special instructions/safety data sheet. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Separate from acids. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. Materials to avoid

7.3 Specific end use(s)

Recommendations

Not available

Industrial sector specific solutions

Not available

8. Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

<u>Product/ingredient name</u>	<u>Occupational exposure limits</u>
Sodium hydroxide	OEL(1995-08-25)) Short term OEL-RL: 2 mg/m ³

Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

8.2 Exposure controls

Appropriate engineering controls

If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Individual protection measures

Hygiene measures

Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Industrial use Wear eye protection. Chemical splash goggles or face shield.

Skin protection

Hand protection

For industrial use

Body protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. For industrial use, Wear suitable protective clothing. Avoid prolonged or repeated contact with skin.

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

A respirator is not needed under normal and intended conditions of product use. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Form liquid

Colour Yellow

Odour perfumed

Odour threshold Not available

pH 13

Melting point/freezing point Not available.

Initial boiling point and boiling range	Not available.
Flash point	Non-flammable.
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Density	Not available
Bulk density	Not available
Solubility in water at room temperature (g/l):	Not available
Upper/lower flammability or explosive limits	Lower: Not available. Upper: Not available.
Vapour pressure	Not available.
Vapour density	Not available
Relative density	Not available
Solubility(ies)	Not available
Partition coefficient: n- octanol/water	Not available
Auto-ignition temperature	Not available
Viscosity	Dynamic: Not available Kinematic: Not available.
Explosive properties	Not available
Oxidising properties	Not available
<u>9.2 Other information</u>	
SADT	Not available

Type of aerosol Not available

Heat of combustion Not available.

10. Stability and reactivity

10.1 Reactivity No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability The product is stable.

10.3 Possibility of hazardous reactions Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid EUH206 Warning! Do not use together with other products. May release dangerous gases (chlorine). Avoid release to the environment. Do not allow to enter surface water or drains undiluted or in large quantities.

10.5 Incompatible materials Reactive or incompatible with the following materials:
acids
Flammable material
combustible materials
metals

10.6 Hazardous decomposition products Contact with acids liberates toxic gas (chlorine)

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 18,800 mg/kg

Irritation/Corrosion

Eyes

Causes eye irritation.

Skin

Causes skin irritation.

Sensitisation

No sensitization studies have been performed on the mixture. Based on the composition as indicated in section 3, it's not likely that the mixture will cause sensitisation by skin contact

Respiratory

No inhalation irritancy studies have been performed on the mixture. Based on the composition as indicated in section 3, it is not likely that this mixture will cause irritation of the respiratory tract.

Repeated dose toxicity

Not available

Carcinogenicity

No known significant effects or critical hazards.

Mutagenicity

No known significant effects or critical hazards.

Toxicity for reproduction

No known significant effects or critical hazards.

12: Ecological information**12.1 Toxicity**

No ecological testing on the mixture has been performed. Contains a substance considered very toxic to aquatic organisms, but below threshold for classification

Mixture / Substance:

EC50 (Daphnia): 0.049 mg/l

LC50 (Fish): Labeo boga0.06 mg/l

12.2 Persistence and degradability

The surfactants used in this mixture are readily biodegradable.

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.

12.3 Bioaccumulative potential

Not considered to be bioaccumulating in the environment

12.4 Mobility in soil

Mixture is highly soluble

12.5 Results of PBT and vPvB assessment

The substances used in this mixture are neither a PBT- nor a vPvB substance

13. Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. May be harmful to the environment if released in large quantities.

Hazardous waste

The classification of the product may meet the criteria for a hazardous waste.

Packaging

Methods of disposal

The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

	ADR/RID	ADN	IMDG
14.1 UN number	3266	3266	3266
14.2 UN proper shipping name	CORROSIVE LIQUID, BASIC, INORGANIC N.O.S.(Sodium hydroxide, Sodium hypochlorite)	CORROSIVE LIQUID, BASIC, INORGANIC N.O.S.(Sodium hydroxide, Sodium hypochlorite)	CORROSIVE LIQUID, BASIC, INORGANIC N.O.S.(Sodium hydroxide, Sodium hypochlorite)
14.3 Transport hazard class(es)	Class 8	Class 8	Class 8
14.4 Packing group	III	III	III

14.5. Environmental hazards	No.	No.	No.
14.6 Special precautions for user	Not available	Not available	Not available
Additional information	Tunnel code_(E) EmS codes: F-A, S-B		

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not available.

15. Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Substances of very high concern

Carcinogen: None of the components are listed.

Mutagen: None of the components are listed.

Toxic to reproduction: None of the components are listed.

PBT: None of the components are listed.

vPvB: None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not applicable.

Other EU regulations**Europe inventory**

All components are listed or exempted.

Integrated pollution prevention and control list (IPPC) - Air-

Not listed

Integrated pollution prevention and control list (IPPC) - Water-

Not listed

Aerosol dispensers Not applicable.

National regulations

Remark This product has been classified in accordance with Dangerous Preparations Directive (1999/45/EC as amended).

International regulations

15.2 Chemical Safety Assessment This product contains substances for which Chemical Safety Assessments are still required.

16. Other information

Abbreviations and acronyms ATE = Acute Toxicity Estimate

acronyms CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

PNEC = Predicted No Effect Concentration

RRN = REACH Registration Number

Key literature references and sources for data	The acute toxicity (LD50) of this mixture, as given in section 11, has been calculated using the Proportionality Method (Holland, G.H. (1994). Verification of a Mathematical Method for the Estimation of the Acute Ingestion Hazard of Detergent Preparations. Toxic in Vitro, Vol. 8 No. 6 pp1177 – 1183, Elsevier Science Limited, Wielka Brytania.) AISE = Association Internationale de la Savonnerie, de la Détergence et des Produits d'Entretien, International Association for Soaps, Detergents and Maintenance Products The irritancy potential of this mixture has been assessed by reference to test data on similar mixtures.
Full text of abbreviated H statements	H400 Very toxic to aquatic life. H318 Causes serious eye damage. H314 Causes severe skin burns and eye damage. H314 Causes severe skin burns and eye damage. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation.
Full text of classifications [CLP/GHS]	Aquatic Acute 1, H400: ACUTE AQUATIC HAZARD - Category 1 Eye Dam. /Irrit. 1, H318: SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 Skin Corr. /Irrit. 1, H314: SKIN CORROSION/IRRITATION - Category 1 Skin Corr. /Irrit. 1A, H314: SKIN CORROSION/IRRITATION - Category 1A Skin Corr. /Irrit. 1B, H314: SKIN CORROSION/IRRITATION - Category 1B Skin Corr. /Irrit. 2, H315: SKIN CORROSION/IRRITATION - Category 2
Full text of abbreviated R phrases	R31- Contact with acids liberates toxic gas. R34- Causes burns. R38- Irritating to skin. R41- Risk of serious damage to eyes. R50- Very toxic to aquatic organisms.

Full text of classifications [DSD/DPD] C – Corrosive
N - Dangerous for the environment.
Xi - Irritant

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Reason: Not applicable

Version 01

Notice to reader

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