

		Page: 1
SAFETY DATA SHEET		Revision Date: 14.07.2026
		Print Date: 13.08.2026
		SDS Number: R1902097
DOMESTOS PROFESSIONAL CITRUS FRESH 101104952		Version: 1.0

Conforms to EU Regulation 1907/2006/EC as amended.

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

1.1 Product identifier

Trade name : DOMESTOS PROFESSIONAL CITRUS FRESH

Unique Formula Identifier (UFI) : UYFD-X0FJ-300T-0K0U

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

Use of the Substance/Mixture : Hard surface cleaner
Surface disinfectant
for general surface sanitization
Detergent

Recommended restrictions on use : For professional use only
Uses other than those identified are not recommended

Sector-specific worker exposure

AISE_SWED_PW_19_2

1.3 Details of the supplier of the safety data sheet

Unilever Europe BV (UPro), Rodezand 90,
3011 AN Rotterdam, NL

E-mail address of person responsible for the SDS:

HazardCommunication@solenis.com

Product Information

22 328-10-00

MSDSinfoPL@solenis.com

1.4 Emergency telephone

Seek medical advice (show the label or safety data sheet where possible), 112

		Page: 2
SAFETY DATA SHEET		Revision Date: 14.07.2026
		Print Date: 13.08.2026
		SDS Number: R1902097
DOMESTOS PROFESSIONAL CITRUS FRESH 101104952		Version: 1.0

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Corrosive to Metals, Category 1	H290: May be corrosive to metals.
Skin corrosion, Category 1B	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Category 2	H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H410 Very toxic to aquatic life with long lasting effects.

Supplemental Hazard Statements : EUH031 Contact with acids liberates toxic gas.
EUH071 Corrosive to the respiratory tract.

Precautionary Statements : **Prevention:**
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

	Page: 3
SAFETY DATA SHEET	Revision Date: 14.07.2026
	Print Date: 13.08.2026
	SDS Number: R1902097
DOMESTOS PROFESSIONAL CITRUS FRESH 101104952	Version: 1.0

Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

Hazardous ingredients which must be listed on the label:

sodium hypochlorite
Amine, Coco alkyl dimethyl, N-oxide

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
sodium hypochlorite	7681-52-9 231-668-3 01-2119488154-34-xxxx	Met. Corr. 1; H290 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 3; H335 (Respiratory system) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH031 M-Factor (Acute aquatic toxicity): 10	>= 3 - < 5

**SAFETY DATA SHEET**

Revision Date: 14.07.2026

Print Date: 13.08.2026

SDS Number: R1902097

DOMESTOS PROFESSIONAL CITRUS FRESH

Version: 1.0

101104952

		M-Factor (Chronic aquatic toxicity): 1	
		specific concentration limit EUH031 ≥ 5 %	
Amine, Coco alkyldimethyl, N-oxide	61788-90-7 263-016-9 01-2119490061-47-xxxx	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	≥ 1 - < 2,5
sodium hydroxide	1310-73-2 215-185-5 01-2119457892-27-xxxx	M-Factor (Acute aquatic toxicity): 1 Met. Corr. 1; H290 Skin Corr. 1A; H314 Eye Dam. 1; H318	≥ 0,5 - < 1
		specific concentration limit Skin Corr. 1A; H314 ≥ 5 % Skin Corr. 1B; H314 2 - < 5 % Skin Irrit. 2; H315 0,5 - < 2 % Eye Irrit. 2; H319 0,5 - < 2 %	
sodium chlorate	7775-09-9 231-887-4	Ox. Sol. 1; H271 Acute Tox. 3; H301 Aquatic Chronic 2; H411	≥ 0,1 - < 0,25
		Acute toxicity estimate Acute oral toxicity: 100 mg/kg	

For explanation of abbreviations see section 16.

		Page: 5
SAFETY DATA SHEET		Revision Date: 14.07.2026
		Print Date: 13.08.2026
		SDS Number: R1902097
DOMESTOS PROFESSIONAL CITRUS FRESH 101104952		Version: 1.0

SECTION 4: First aid measures

4.1 Description of first-aid measures

- | | |
|-------------------------|---|
| General advice | : Move out of dangerous area.
Consult a physician.
Show this material safety data sheet to the doctor in attendance.
Do not leave the victim unattended. |
| If inhaled | : Move to fresh air.
If breathed in, move person into fresh air.
Keep patient warm and at rest.
If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician. |
| In case of skin contact | : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
If skin irritation persists, call a physician.
If on clothes, remove clothes.
If on skin, rinse well with water.
Wash contaminated clothing before re-use. |
| In case of eye contact | : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist. |
| If swallowed | : Keep respiratory tract clear.
Clean mouth with water and drink afterwards plenty of water.
Take victim immediately to hospital.
Get medical attention immediately.
Do NOT induce vomiting.
Rinse mouth with water.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician. |

4.2 Most important symptoms and effects, both acute and delayed

		Page: 6
SAFETY DATA SHEET		Revision Date: 14.07.2026
		Print Date: 13.08.2026
		SDS Number: R1902097
DOMESTOS PROFESSIONAL CITRUS FRESH 101104952		Version: 1.0

Risks : Causes serious eye damage.
Causes severe burns.
Corrosive to the respiratory tract.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Water spray
Foam
Carbon dioxide (CO₂)
Dry chemical

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.

5.3 Advice for firefighters

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.

Specific extinguishing methods : Product is compatible with standard fire-fighting agents.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

		Page: 7
SAFETY DATA SHEET		Revision Date: 14.07.2026
		Print Date: 13.08.2026
		SDS Number: R1902097
DOMESTOS PROFESSIONAL CITRUS FRESH 101104952		Version: 1.0

Comply with all applicable federal, state, and local regulations.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
Should not reach sewage water or drainage ditch undiluted or unneutralised

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

For further information see Section 8 and Section 13 of the safety data sheet.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : To avoid spills during handling keep bottle on a metal tray.
Do not breathe vapors/dust.
Container hazardous when empty.
Avoid contact with skin and eyes.
Smoking, eating and drinking should be prohibited in the application area.
For personal protection see section 8.
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : When using do not smoke. Wash hands before breaks and at the end of workday. When using do not eat or drink. Ensure that eyewash stations and safety showers are close to the workstation location.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Electrical installations / working materials must comply with the technological safety standards. Keep container tightly closed in a dry and well-ventilated place. Containers which are

		Page: 8
SAFETY DATA SHEET		Revision Date: 14.07.2026
		Print Date: 13.08.2026
		SDS Number: R1902097
DOMESTOS PROFESSIONAL CITRUS FRESH		Version: 1.0
101104952		

opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions.

Further information on storage stability : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No. EC-No.	Value type (Form of exposure)	Control parameters	Basis
sodium hydroxide	1310-73-2	NDS	0,5 mg/m ³	PL OEL
		NDSch	1 mg/m ³	PL OEL

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Routes of exposure	Potential health effects	Value
Sodium hypochlorite	Consumers	Dermal	Long-term local effects	0,5 %
	Workers	Dermal	Long-term local effects	0,5 %
	Consumers	Inhalation	Short-term exposure, Local effects	3,1 mg/kg bw/day
	Consumers	Inhalation	Short-term exposure, Systemic effects	3,1 mg/kg bw/day
	Consumers	Inhalation	Long-term local effects	1,55 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	1,55 mg/kg bw/day
	Workers	Inhalation	Short-term exposure, Local effects	3,1 mg/kg bw/day
	Workers	Inhalation	Short-term exposure, Systemic effects	3,1 mg/kg bw/day
	Workers	Inhalation	Long-term local effects	1,55 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	1,55 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	0,26 mg/kg bw/day
	Consumers	Dermal	Short-term exposure,	126,65 mg/kg

**SAFETY DATA SHEET**

Revision Date: 14.07.2026

Print Date: 13.08.2026

SDS Number: R1902097

DOMESTOS PROFESSIONAL CITRUS FRESH

Version: 1.0

101104952

			Systemic effects	bw/day
	Consumers	Dermal	Long-term systemic effects	126,65 mg/kg bw/day
	Workers	Dermal	Short-term exposure, Systemic effects	295,52 mg/kg bw/day
	Workers	Dermal	Long-term systemic effects	295,52 mg/kg bw/day
	Consumers	Inhalation	Short-term exposure, Systemic effects	443,28 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	443,28 mg/kg bw/day
	Workers	Inhalation	Short-term exposure, Systemic effects	2068,62 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	2068,62 mg/kg bw/day
	Consumers	Oral	Short-term exposure, Systemic effects	126,65 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	126,65 mg/kg bw/day
sodium hydroxide	Consumers	Dermal	Short-term exposure, Local effects	2 %
	Workers	Dermal	Short-term exposure, Local effects	2 %
	Consumers	Inhalation	Long-term local effects	1 mg/kg bw/day
	Workers	Inhalation	Long-term local effects	1 mg/kg bw/day
Sodium chlorate	Consumers	Oral	Long-term systemic effects	0,043 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
sodium hypochlorite	Fresh water	0,00021 mg/l
	Sea water	0,000042 mg/l
	Intermittent use/release	0,00026 mg/l
	Sewage treatment plant	0,03 mg/l
Sodium chloride	Fresh water	5 mg/l
	Intermittent use/release	19 mg/l
	Sewage treatment plant	500 mg/l
	Soil	4,86 mg/l

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.

		Page: 10
SAFETY DATA SHEET		Revision Date: 14.07.2026
		Print Date: 13.08.2026
		SDS Number: R1902097
DOMESTOS PROFESSIONAL CITRUS FRESH 101104952		Version: 1.0

Recommended safety measures for handling the undiluted product:

Engineering measures

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Appropriate organisational controls: : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
Should not reach sewage water or drainage ditch undiluted or unneutralised

REACH use scenarios considered for the undiluted product:

	SWED- Sector Specific Worker Exposure Description	LCS	PROC	Duration (min)	ERC
Manual application	AISE_SWED_PW_19_2	PW	PROC19	480 min	ERC8a

Personal protective equipment

Eye protection (EN ISO 16321) : Wear face-shield and protective suit for abnormal processing problems.
Eye wash bottle with pure water
Tightly fitting safety goggles
Wear chemical splash goggles and face shield when there is potential for exposure of the eyes or face to liquid, vapor or mist.
Maintain eye wash station in immediate work area.

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

Hand protection (EN ISO 374)

Remarks : Wear resistant gloves (consult your safety equipment supplier). Discard gloves that show tears, pinholes, or signs

		Page: 11
SAFETY DATA SHEET		Revision Date: 14.07.2026
		Print Date: 13.08.2026
		SDS Number: R1902097
DOMESTOS PROFESSIONAL CITRUS FRESH 101104952		Version: 1.0

of wear. The suitability for a specific workplace should be discussed with the producers of the protective gloves. 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.

Protective measures	:	No special requirements under normal use conditions
Skin and body protection (EN 14605)	:	Wear as appropriate: Impervious clothing Chemical resistant apron Safety shoes Choose body protection according to the amount and concentration of the dangerous substance at the work place. Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur (EN 14605)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	liquid
Odor	:	To Match Standard (TMS)
Odor Threshold	:	No data available

		Page: 12
SAFETY DATA SHEET		Revision Date: 14.07.2026
		Print Date: 13.08.2026
		SDS Number: R1902097
DOMESTOS PROFESSIONAL CITRUS FRESH 101104952		Version: 1.0

Melting point/freezing point : No data available

Boiling point/boiling range : No data available

Flammability : Not flammable.

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Flash point : Not applicable

Decomposition temperature : No data available

pH : $\geq 11,5$
Method: ISO 4316

Viscosity
Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Solubility(ies)
Water solubility : completely soluble, Fully miscible

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

		Page: 13
SAFETY DATA SHEET		Revision Date: 14.07.2026
		Print Date: 13.08.2026
		SDS Number: R1902097
DOMESTOS PROFESSIONAL CITRUS FRESH 101104952		Version: 1.0

Vapor pressure : No data available

Relative density : No data available

Density : 1,0820 g/cm³

Relative vapor density : No data available

Particle characteristics
Assessment : No data available

Particle size : No data available

Particle Size Distribution : No data available

Dustiness : No data available

Shape : No data available

Crystallinity : No data available

Surface treatment
/Coatings : No data available

9.2 Other information

Explosives : Not explosive

Oxidizing properties : Non Oxidative

Self-ignition : No data available

		Page: 14
SAFETY DATA SHEET		Revision Date: 14.07.2026
		Print Date: 13.08.2026
		SDS Number: R1902097
DOMESTOS PROFESSIONAL CITRUS FRESH 101104952		Version: 1.0

Metal corrosion rate : Corrosive to metals

Evaporation rate : No data available

Surface tension : OECD 115, Not relevant for classification of this product.

SECTION 10: Stability and reactivity

10.1 Reactivity

No reactivity hazards known under normal storage and use conditions

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.
No hazards to be specially mentioned.
Product will not undergo hazardous polymerization.

10.4 Conditions to avoid

Conditions to avoid : No data available

10.5 Incompatible materials

Materials to avoid : Reacts with acids.
May be corrosive to metals.

10.6 Hazardous decomposition products

None known under normal storage and use conditions

SECTION 11: Toxicological information

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

Acute toxicity

Not classified due to lack of data.

Product:

Acute inhalation toxicity : Assessment: Corrosive to the respiratory tract.

**SAFETY DATA SHEET**

Revision Date: 14.07.2026

Print Date: 13.08.2026

SDS Number: R1902097

DOMESTOS PROFESSIONAL CITRUS FRESH

Version: 1.0

101104952

Components:**sodium hypochlorite:**

Acute oral toxicity : LD50 (Rat): > 5 g/kg

Acute dermal toxicity : LD50 (Rabbit, male and female): > 20.000 mg/kg

Amine, Coco alkyldimethyl, N-oxide:

Acute oral toxicity : LD50 (Rat, male and female): 1.064 mg/kg
Method: OECD Test Guideline 401
Assessment: The component/mixture is classified as acute oral toxicity, category 4.

sodium hydroxide:

Acute oral toxicity : LDLo (Rabbit): 500 mg/kg

sodium chlorate:

Acute oral toxicity : LD50 (Rat): 100 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5,59 mg/l
Exposure time: 4,5 h
Test atmosphere: dust/mist
Assessment: The component/mixture is classified as acute inhalation toxicity, category 5.

Acute dermal toxicity : LD50 (Rabbit): > 10 g/kg

Skin corrosion/irritation

Causes severe burns.

Product:

Remarks : Extremely corrosive and destructive to tissue.
Causes severe skin burns and eye damage.

Components:**sodium hypochlorite:**

Result : Corrosive to skin

Amine, Coco alkyldimethyl, N-oxide:

Result : Irritating to skin

		Page: 16
SAFETY DATA SHEET		Revision Date: 14.07.2026
		Print Date: 13.08.2026
		SDS Number: R1902097
DOMESTOS PROFESSIONAL CITRUS FRESH 101104952		Version: 1.0

sodium hydroxide:

Result : Causes severe burns.

sodium chlorate:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Not irritating to skin

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks : May cause irreversible eye damage.

Components:

sodium hypochlorite:

Result : Corrosive to eyes

Amine, Coco alkyldimethyl, N-oxide:

Result : Corrosive to eyes

sodium hydroxide:

Result : Corrosive to eyes

sodium chlorate:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Mildly irritating to eyes

Respiratory or skin sensitization

Skin sensitization

Not classified due to lack of data.

Respiratory sensitization

Not classified due to lack of data.

Germ cell mutagenicity

Not classified due to lack of data.

**SAFETY DATA SHEET**

Revision Date: 14.07.2026

Print Date: 13.08.2026

SDS Number: R1902097

DOMESTOS PROFESSIONAL CITRUS FRESH

Version: 1.0

101104952

Components:**sodium hypochlorite:**

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: without metabolic activation
Result: negative

Test Type: comet assay
Test system: Human lymphocytes
Metabolic activation: without metabolic activation
Result: positive

Genotoxicity in vivo : Test Type: chromosome aberration assay
Species: Mouse (male)
Result: negative

Carcinogenicity

Not classified due to lack of data.

Reproductive toxicity

Not classified due to lack of data.

STOT-single exposure

Corrosive to the respiratory tract.

Components:**sodium hypochlorite:**

Routes of exposure : Inhalation
Target Organs : Respiratory Tract
Assessment : May cause respiratory irritation.

STOT-repeated exposure

Not classified due to lack of data.

Aspiration toxicity

Not classified due to lack of data.

11.2 Information on other hazards**Endocrine disrupting properties**

Not classified due to lack of data.

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation

		Page: 18
SAFETY DATA SHEET		Revision Date: 14.07.2026
		Print Date: 13.08.2026
		SDS Number: R1902097
DOMESTOS PROFESSIONAL CITRUS FRESH 101104952		Version: 1.0

(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Further information

Product:

Remarks : No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

sodium hypochlorite:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,05 - 0,071 mg/l
Exposure time: 96 h

LC50 (Pimephales promelas (fathead minnow)): 0,06 - 0,11 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC 50 (Daphnia magna (Water flea)): 0,045 - 0,068 mg/l
Exposure time: 48 h

M-Factor (Acute aquatic toxicity) : 10

M-Factor (Chronic aquatic toxicity) : 1

Amine, Coco alkylidimethyl, N-oxide:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1,26 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2,9 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

**SAFETY DATA SHEET**

Revision Date: 14.07.2026

Print Date: 13.08.2026

SDS Number: R1902097

DOMESTOS PROFESSIONAL CITRUS FRESH

Version: 1.0

101104952

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 0,19 mg/l
Exposure time: 72 h

NOEC (Aquatic plants): 0,067 mg/l
Exposure time: 28 d

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : EC10 (Pseudomonas putida): 24 mg/l
Exposure time: 18 h

Toxicity to fish (Chronic toxicity) : NOEC: 0,42 mg/l
Species: Pimephales promelas (fathead minnow)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,70 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211

sodium hydroxide:

Toxicity to fish : LC50 (Gambusia affinis (Mosquito fish)): 125 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 34,59 - 47,13 mg/l
Exposure time: 48 h

sodium chlorate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 1.000 mg/l
Exposure time: 96 h
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1.000 mg/l
Exposure time: 48 h
Test Type: flow-through test

Toxicity to algae/aquatic plants : EC50 (Nitzschia closterium (diatom)): 1,9 mg/l
End point: Growth inhibition
Exposure time: 72 h
Test Type: semi-static test

Toxicity to fish (Chronic toxicity) : NOEC: >= 500 mg/l
Exposure time: 36 d
Species: Danio rerio (zebra fish)

**SAFETY DATA SHEET**

Revision Date: 14.07.2026

Print Date: 13.08.2026

SDS Number: R1902097

DOMESTOS PROFESSIONAL CITRUS FRESH

Version: 1.0

101104952

Test Type: flow-through test
Method: OECD Test Guideline 210

Toxicity to daphnia and other : NOEC: >= 500 mg/l
aquatic invertebrates : Exposure time: 21 d
(Chronic toxicity) : Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211

12.2 Persistence and degradability

ProductBiodegradability : This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

Components:**sodium hypochlorite:**

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

Amine, Coco alkyldimethyl, N-oxide:

Biodegradability : Result: Readily biodegradable.

sodium hydroxide:

Biodegradability : Result: The methods for determining biodegradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential**Product:**

Bioaccumulation : Remarks: The bioaccumulation potential cannot be determined.

Components:**sodium hypochlorite:**

Partition coefficient: n-octanol/water : log Pow: -3,42

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment**Product:**

Assessment : This substance/mixture contains no components considered

		Page: 21
SAFETY DATA SHEET		Revision Date: 14.07.2026
		Print Date: 13.08.2026
		SDS Number: R1902097
DOMESTOS PROFESSIONAL CITRUS FRESH 101104952		Version: 1.0

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

No data available

12.7 Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life.
Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Send to a licensed waste management company.
The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.

Dispose of in accordance with local regulations.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.

SECTION 14: Transport information

14.1 UN number or ID number

		Page: 22
SAFETY DATA SHEET		Revision Date: 14.07.2026
		Print Date: 13.08.2026
		SDS Number: R1902097
DOMESTOS PROFESSIONAL CITRUS FRESH 101104952		Version: 1.0

ADR: UN1760

ADN: UN1760

RID: UN1760

IMDG-Code: UN1760

IATA-DGR: UN1760

14.2 UN proper shipping name

ADR: CORROSIVE LIQUID, N.O.S. (SODIUM HYPOCHLORITE, SODIUM HYDROXIDE)

ADN: CORROSIVE LIQUID, N.O.S. (SODIUM HYPOCHLORITE, SODIUM HYDROXIDE)

RID: CORROSIVE LIQUID, N.O.S. (SODIUM HYPOCHLORITE, SODIUM HYDROXIDE)

IMDG-Code: CORROSIVE LIQUID, N.O.S. (SODIUM HYPOCHLORITE, SODIUM HYDROXIDE)

IATA-DGR: Corrosive liquid, n.o.s. (SODIUM HYPOCHLORITE, SODIUM HYDROXIDE)

14.3 Transport hazard class(es)

ADR: 8

ADN: 8

RID: 8

IMDG-Code: 8

IATA-DGR: 8

14.4 Packing group

ADR: III

ADN: III

RID: III

IMDG-Code: III

IATA-DGR: III

14.5 Environmental hazards

ADR: Not applicable

ADN: Not applicable

RID: Not applicable

IMDG-Code: Not applicable

IATA-DGR: Not applicable

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet.

		Page: 23
SAFETY DATA SHEET		Revision Date: 14.07.2026
		Print Date: 13.08.2026
		SDS Number: R1902097
DOMESTOS PROFESSIONAL CITRUS FRESH 101104952		Version: 1.0

Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59) : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EU) No 2024/590 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : sodium chlorate

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. E1 ENVIRONMENTAL HAZARDS

Regulation (EC) No. 648/2004, as amended : less than 5 %: Non-ionic surfactants, Chlorine-based bleaching agents, Soap
Other constituents: Perfumes

Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.



SAFETY DATA SHEET	Revision Date: 14.07.2026
	Print Date: 13.08.2026
	SDS Number: R1902097
DOMESTOS PROFESSIONAL CITRUS FRESH	Version: 1.0
101104952	

Act of February 25, 2011 on chemical substances and their mixtures (i.e. Journal of Laws of 2020, item 2289)

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (Official Journal of the European Union L 353 from 31.12.2008) with further adaptation to technical progress (ATP).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (Official Journal of the European Union L 396 from 30.12.2006, as amended).

Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Ordinance of the Minister of Family, Labour and Social Policy of 12 June 2018 concerning the highest allowable concentrations and levels of the agents harmful for health in the workplace (Dz.U 2018 pos 1286, with later amendments).

Ordinance of the Minister of Health of 2nd February 2011 concerning tests and measurement of agents harmful for health in the workplace (Dz. U. Nr. 33, item 166 with later amendments).

Ordinance of the Minister of Health of 30th December 2004 on the health and safety of workers related to chemical agents at work (consolidated text, Journal of Laws 2016 no. 0 item 1488)

Act of 14 December 2012. on Waste (Journal of Laws of 2013. pos. 21, as amended).

Act of 13 June 2013. On packaging and packaging waste (Journal. U. of 2013. Item. 888, as amended).

Ordinance of the Minister of Climate of 2nd January 2020 on Waste Catalog (Dz. U. 2020 item 10).

Ordinance of the Minister of Environment on the requirements for carrying out the process of thermal treatment of waste and how to deal with waste produced in the process. (Dz. U. of 2016., Pos. 108)

Act of 19 August 2011 on transport of dangerous goods (Dz. U. Nr. 227, item 1367, as amended).

Government Statement of February 15, 2021 on the entry into force of amendments to Annexes A and B to Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), drawn up in Geneva on September 30, 1957 (Journal of Laws 202 poz.874 as amended)

Act of July 29, 2005 on drug addiction prevention (Journal of Laws of 2005, No. 179, item 1485, with later amendments)

Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC

Regulation (EC) No. 648/2004 - Detergents regulation

Ingredients which must be listed on the label

		Page: 25
SAFETY DATA SHEET		Revision Date: 14.07.2026
		Print Date: 13.08.2026
		SDS Number: R1902097
DOMESTOS PROFESSIONAL CITRUS FRESH 101104952		Version: 1.0

The ingredients of this product are reported in the following inventories:

TCSI	: On the inventory, or in compliance with the inventory
TSCA	: Product contains substance(s) not listed on TSCA inventory.
AIIC	: On the inventory, or in compliance with the inventory
CA. DSL	: This product contains one or more components that are not on the Canadian DSL and have annual quantity limits.
ENCS	: Not in compliance with the inventory
KECI	: Not in compliance with the inventory
PICCS	: Not in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture.

SECTION 16: Other information

Further information

Revision Date: 14.07.2026

Classification of the mixture:

Met. Corr. 1	H290
Skin Corr. 1B	H314
Eye Dam. 1	H318
Aquatic Acute 1	H400
Aquatic Chronic 2	H411

Classification procedure:

Based on product data or assessment
Based on product data or assessment
Based on product data or assessment
Calculation method
Calculation method

Full text of H-Statements

H271	: May cause fire or explosion; strong oxidizer.
H290	: May be corrosive to metals.
H301	: Toxic if swallowed.
H302	: Harmful if swallowed.
H314	: Causes severe skin burns and eye damage.
H315	: Causes skin irritation.
H318	: Causes serious eye damage.
H335	: May cause respiratory irritation.

	Page: 26
SAFETY DATA SHEET	Revision Date: 14.07.2026
	Print Date: 13.08.2026
	SDS Number: R1902097
DOMESTOS PROFESSIONAL CITRUS FRESH 101104952	Version: 1.0

H400 : Very toxic to aquatic life.
 H410 : Very toxic to aquatic life with long lasting effects.
 H411 : Toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity
 Aquatic Acute : Short-term (acute) aquatic hazard
 Aquatic Chronic : Long-term (chronic) aquatic hazard
 Eye Dam. : Serious eye damage
 Met. Corr. : Corrosive to Metals
 Ox. Sol. : Oxidizing solids
 Skin Corr. : Skin corrosion
 Skin Irrit. : Skin irritation
 STOT SE : Specific target organ toxicity - single exposure
 PL OEL : Ordinance of the Minister of Family, Labour and Social Policy of 12 June 2018 concerning the highest allowable concentrations and levels of the agents harmful for health in the workplace (Dz.U 2018 pos 1286, with later amendments)
 PL OEL / NDS : Maximal Admissible Concentration
 PL OEL / NDSch : Maximal Admissible Temporary Concentration

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council

		Page: 27
SAFETY DATA SHEET		Revision Date: 14.07.2026
		Print Date: 13.08.2026
		SDS Number: R1902097
DOMESTOS PROFESSIONAL CITRUS FRESH 101104952		Version: 1.0

concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to compile the Material Safety Data Sheet

Key literature references and sources of data

SOLENIS Internal data

SOLENIS internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This SDS has been prepared by the Solenis Environmental Health and Safety Department.

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