SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2020/878)

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : STOP VERT PREMIUM

Product code : 30517

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

FACADE CLEANER

Surfaces bleaching agent.

Main use category :	Product for professional use.
Additional Information :	The product should not be used for applications other than those described in this safety data sheet or in the technical documents for the product.

Use descriptor system (REACH) :

SU: 22, 1 - PC: 15.0, 35.0 - PROC: 4, 8a, 9, 11 - ERC: 9b, 10a, 10b

1.3. Details of the supplier of the safety data sheet

IPC

10 Quai Malbert

29200 BREST France

Tél : +33(0)2.98.43.45.44

Fax : +33 (0)2.98.44.22.53

ipc@groupe-ipc.com

1.4. Emergency telephone number : +33 (0)1 45 42 59 59.

Association/Organisation : ORFILA http://www.centres-antipoison.net.

Other emergency numbers

European emergency call number : 112

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Substance that is corrosive to metals, Category 1 (Met. Corr. 1, H290).

Skin corrosion, Category 1 (Skin Corr. 1, H314).

Serious eye damage, Category 1 (Eye Dam. 1, H318).

Hazardous to the aquatic environment - Acute hazard, Category 1 (Aquatic Acute 1, H400).

Hazardous to the aquatic environment - Chronic hazard, Category 2 (Aquatic Chronic 2, H411).

Contact with acids liberates toxic gas (EUH031).

2.2. Label elements

Detergent mixture (see section 15).

Mixture for spray application.

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :

GHS09

GHS05

Signal Word :

DANGER

Product identifiers :

EC 231-668-3 SODIUM HYPOCHLORITE, SOLUTION CL ACTIVE

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.
EUH031	Contact with acids liberates toxic gas.
Precautionary statements - Prevention :	
P260	Do not breathe dust, mist, vapours.
P273	Avoid release to the environment.
P280	Wear protective gloves, protective clothing and eye protection.
Precautionary statements - Response :	
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.
P391	Collect spillage.

2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >= 0.1% published by the European CHemicals Agency (ECHA) under article 59 of REACH: http://echa.europa.eu/fr/candidate-list-table

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

The mixture does not contain substances> = 0.1% with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Composition :

Identification	Classification (EC) 1272/2008	Note	%
INDEX: 017_011_00_1 CAS: 7681-52-9 EC: 231-668-3 REACH: 01-2119488154-34-XXXX SODIUM HYPOCHLORITE, SOLUTION CL ACTIVE	GHS05, GHS09, GHS07 Dgr Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 M Acute = 10 Aquatic Chronic 1, H410 M Chronic = 1 EUH031	B	8 <= x % < 10

Specific concentration limits:

Identification	Specific concentration limits	ATE
INDEX: 017_011_00_1 CAS: 7681-52-9 EC: 231-668-3 REACH: 01-2119488154-34-XXXX SODIUM HYPOCHLORITE, SOLUTION CL ACTIVE	EUH031: C>=5%	

Information on ingredients :

(Full text of H-phrases: see section 16)

CAS: 7782-50-5 EC: 231-959-5	CHLORINE

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

Keep the packaging with the label and/or the instructions available.

4.1. description of first aid measures

In case of disturbances of consciousness, place the subject in the lateral safety position (lying on his side); call 112.

In the event of exposure by inhalation :

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical advice immediately if symptoms occur and/or large quantitieshave been inhaled.

In the event of splashes or contact with eyes :

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

Regardless of the initial state, refer the patient to an ophthalmologist and show him the label.

Remove contact lenses, if present and easy to do. Continue rinsing.

In the event of splashes or contact with skin :

Remove any soiled or splashed clothing immediately.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

If the contaminated aera is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

Immediately remove contaminated clothing and wash before reuse. Flush skin with plenty of water for at least 15 minutes. Seek medical attention if irritation develops.

In the event of swallowing :

Do not give the patient anything orally.

Seek medical attention immediately, showing the label.

In case of ingestion, if the quantity is small (not more than one mouthful), rinse the mouth with water and consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed

After contact with the skin :	Corrosive to the skin. Causes severe burns. Risk of ulceration of the skin.
After contact with the eyes :	Causes severe burns. Even small splashes in the eyes can cause irreversible tissue damage and blindness. Symptoms: redness, lachrymation, tissue swelling, burning.
If swallowed :	Severe burns to the mouth and throat, as well as danger of perforation of the esophagus and stomach. Symptoms: nausea, abdominal pain, vomiting with blood, diarrhea, suffocation, cough, severe respiratory failure.

4.3. Indication of any immediate medical attention and special treatment needed

If decomposition products are inhaled during a fire, symptoms may be delayed. The exposed person may need to remain under medical supervision for 48 hours.

Information for the doctor :

Deal in a symptomatic way

SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

5.1. Extinguishing media

Use extinguishing measures that are appropriate to local circumstances and surrounding environment.

Suitable methods of extinction

In the event of a fire, use :

- sprayed water or water mist
- foam
- multipurpose ABC powder
- BC powder
- carbon dioxide (CO2)
- dry chemical agents
- dry sand

Unsuitable methods of extinction

In the event of a fire, do not use :

- water jet

Do not use pressurized water jet may disperse and spread the fire.

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO2)
- chlorine (Cl2)
- hydrogen chloride (HCl)
- phosgene (CCl2O)

5.3. Advice for firefighters

Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

Prevent runoff into sewers and waterways. Use water spray to cool closed containers. Be aware of hazards from other hazardous substances in the immediate area.

Fire residues and contaminated extinguishing water must be disposed of according to local regulations in force.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non first aid worker

Avoid any contact with the skin and eyes.

No action shall be taken involving any personal risk or without suitable training. Evacuate the area.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures

Use drums to dispose of collected waste in compliance with current regulations (see section 13).

6.3. Methods and material for containment and cleaning up

If the ground is contaminated, once the product has been recovered by sponging with an inert and non-combustible absorbent material, wash the contaminated area in plenty of water.

Clean preferably with a detergent, do not use solvents.

Possibility of neutralizing effects the neutralization is possible with sodium thiosulfate (CAS No. 7772-98-7) in solution (1 to 10% m / m). Cleaning with hot water (> 50°C) can accelerate the decomposition of the product.

All contaminated materials should be considered as waste for disposal according to local regulations (Refer to section 13).

6.4. Reference to other sections

Section 7: Handling and Storage

Section 8: exposure control and personal protection

Section 13: Disposal Considerations

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Remove contaminated clothing and protective equipment before entering eating areas.

Emergency showers and eye wash stations will be required in facilities where the mixture is handled constantly.

Do NOT inhale the vapours

When spraying, or when forming mist, vapors, dusts, wear respiratory protection, see section 8.

Avoid direct contact with food and animal feed.

Fire prevention :

Prevent access by unauthorised personnel.

Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

The packages that have been opened must be closed carefully and preferably kept upright.

Store in its original packaging

Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

Never open the packages under pressure.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated place. Protect from frost and sunlight. Store in the original, tightly closed container to avoid environmental contamination. Keep away from incompatible materials (see section 10).

The ground of premises will be waterproof and will form basin of keeping back so that in case of spillage, the liquid cannot spread outside.

Storage

Keep the container tightly closed in a dry place.

Store in a cool dry place between 5-25 ° C in the absence of air and light.

Keep away from acidic products.

Packaging

Always keep in packaging made of an identical material to the original.

Recommended types of packaging :

- Vats
- Drums

Suitable packaging materials :

- Plastic
- Compatible grades of HDPE

Unsuitable packaging materials :

- Rubberised textile
- Metal
- Wood
- Cardboard
- Paper bag
- Textile

7.3. Specific end use(s)

The mixture should not be used for applications other than those described in this safety data sheet and in the technical documents for the product.

Product intended for strictly professional use.

Always read the label or the instructions before use, and follow all the instructions given there.

Do not apply on sensitive surfaces, painted, and light metals (aluminum, copper, brass, bronze, tin, iron)

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits :

- Switzerland :

CAS	VME	VLE	Valeur plafond	Notations
7782-50-5	0.5 ppm 1.5 mg/m³	0.5 ppm 1.5 mg/m³		

- Germany :

CAS	VME :	VME :	Excess	Notes
7782-50-5		0.5 ppm 1.5 mg/m³		1(I)

- Poland :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
7782-50-5	0.7 mg/m³	1.5 mg/m³			

- Belgium :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
7782-50-5		0.5 ppm 1.5 mg/m³			

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
7782-50-5	0.5 ppm	1 ppm		A4	

- European Union :

CAS	VME-mg/m3 :	VME-ppm :	VLE-mg/m3 :	VLE-ppm :	Notes :
7782-50-5	-	-	1.5	0.5	-

- France :

CAS	VME-ppm :	VME-mg/m3 :	VLE-ppm :	VLE-mg/m3 :	Notes :	TMP No :
7782-50-5	-	-	0.5	1.5	-	-

Derived no effect level (DNEL) or derived minimum effect level (DMEL):

SODIUM HYPOCHLORITE, SOLUTION ...% CL ACTIVE (CAS: 7681-52-9)

Final use: **Workers.**

Exposure method: Inhalation.
Potential health effects: Short term local effects.
DNEL : 3.1 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Short term systemic effects.
DNEL : 3.1 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 1.55 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Long term local effects.
DNEL : 1.55 mg of substance/m3

Final use: **Consumers.**

Exposure method: Inhalation.
Potential health effects: Short term local effects.
DNEL : 3.1 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Short term systemic effects.
DNEL : 3.1 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 1.55 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Long term local effects.
DNEL : 1.55 mg of substance/m3

Predicted no effect concentration (PNEC):

SODIUM HYPOCHLORITE, SOLUTION ...% CL ACTIVE (CAS: 7681-52-9)

Environmental compartment: Fresh water.
PNEC : 0.00021 mg/l

Environmental compartment: Sea water.
PNEC : 0.00042 mg/l

Environmental compartment: Intermittent waste water.
PNEC : 0.00026 mg/l

Environmental compartment: Waste water treatment plant.

PNEC : 0.03 mg/l

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :

Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles with protective sides accordance with standard ISO 16321.

In the event of high danger, protect the face with a face shield.

When spraying, wear a face shield in accordance with standard ISO 16321.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

- Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- Natural latex
- PVC (polyvinyl chloride)
- PVA (Polyvinyl alcohol)
- Neoprene® (Polychloroprene)
- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))
- Viton® (Hexafluoropropylene copolymer and vinylidene fluoride)

Recommended properties :

- Impervious gloves in accordance with standard EN ISO 374-2 (Type B)

- Body protection

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing :

Wear suitable protective clothing, in particular overalls and boots. These items must be kept in good condition and cleaned after use.

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605/A1 to prevent skin contact.

In the event of spraying, wear protective clothing against chemical risks and against sprayed liquid (type 4) in accordance with EN14605/A1 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034/A1 to prevent skin contact.

Suitable type of protective boots :

In the event of spraying, wear waterproof boots or half-boots made of nitrile rubber in accordance with standard EN13832-3.

In the event of prolonged contact, wear boots or half-boots with liquid-chemical-resistant and waterproof soles and uppers in accordance with standard EN13832-3.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

- Respiratory protection

Category :

- FFP2

Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387 :

- B1 (Grey)
- B2 (Grey)
- B3 (Grey)

Particle filter according to standard EN143 :

- P3 (White)

If there is a risk of excessive generation of mist, dust or vapors, use approved respiratory protection equipment.

Use respiratory protection at high exposure levels for example when crossing the limit value of the workplace, or where ventilation is insufficient or during prolonged exposure.

In normal use, a breathing protection is not required.

Ensure adequate ventilation, especially in closed spaces.

Use a suitable cartridge / filter respirator: Type B P3.

Exposure controls linked to environmental protection

Do not dispose of the biocidal product in drains (sinks, toilets, etc.), gutters, waterways, in the open field or in any other outdoor environment.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	
Physical state :	Fluid liquid.
Colour	
Color :	Clear yellow
Odour	
Odour threshold :	Not stated.
Odour :	Eucalyptus
Melting point	
Melting point/melting range :	Not relevant.
Freezing point	
Freezing point / Freezing range :	Not stated.
Boiling point or initial boiling point and boiling range	
Boiling point/boiling range :	Not relevant.
Flammability	
Flammability (solid, gas) :	Not stated.
Lower and upper explosion limit	
Explosive properties, lower explosivity limit (%) :	Not stated.
Explosive properties, upper explosivity limit (%) :	Not stated.
Flash point	
Flash point interval :	Not relevant.
Auto-ignition temperature	
Self-ignition temperature :	Not relevant.
Decomposition temperature	
Decomposition point/decomposition range :	Not relevant.
pH	
pH (aqueous solution) :	(1%) = 9.5 +/- 0.5
pH :	Not stated. Strongly basic.
Kinematic viscosity	
Viscosity :	Not stated.
Solubility	
Water solubility :	Soluble.
Fat solubility :	Not stated.
Partition coefficient n-octanol/water (log value)	
Partition coefficient: n-octanol/water :	Not stated.
Vapour pressure	
Vapour pressure (50°C) :	Not relevant.

Density and/or relative density

Density : = 1.15 g/cm3 +/- 0.02 (20°C)
Method for determining the density :
Method A.3 (Relative density) as described in Part A of the Annex to Regulation (EC)No 440/2008

Relative vapour density

Vapour density : Not stated.

9.2. Other information

No data available.

9.2.1. Information with regard to physical hazard classes

No data available.

Corrosive to metals

H290 classification. May be corrosive to metals

9.2.2. Other safety characteristics

No data available.

SECTION 10 : STABILITY AND REACTIVITY

10.1. Reactivity

This mixture reacts with acids, releasing toxic gases in dangerous quantities.

Mixture which by chemical action can corrode and even destroy metals.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

Reactis with organic matters

Strongly exothermic reaction on contact with an acid.

Contact with acids releases toxic chlorine gas. Reacts with ammonia solutions and amines to form explosive compounds. May react violently if in contact with methanol. Decomposition with oxygen formation is accelerated by light and heat as well as by contact with certain metals, particularly copper, nickel, iron and their alloys.

Exposed to high temperatures, the mixture may release dangerous decomposition products, such as chlorinated compounds, fumes.

10.4. Conditions to avoid

Avoid :

- frost
- heat
- exposure to light

Do not boil

Do not mix with strong acids or acid products (exothermic reaction)

Do not mix with EDTA

Do not use in combination with other products.

10.5. Incompatible materials

Keep away from :

- acids
- organic material
- metals
- amines
- nitrogen compounds
- ammonia
- methanol
- ammonium salts

Releases a toxic gas when in contact with acids.

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO2)
- chlorine (Cl2)
- hydrogen chloride (HCl)

- hydrogen cyanide (HCN)

SECTION 11 : TOXICOLOGICAL INFORMATION

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

May cause irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis, following exposure for up to three minutes.

Corrosive reactions are typified by ulcers, bleeding, bloody scabs, and, by the end of observation at 14 days, by discolouration due to blanching of the skin, complete areas of alopecia, and scars.

11.1.1. Substances

a) Acute toxicity :

No data available.

b) Skin corrosion/skin irritation :

SODIUM HYPOCHLORITE, SOLUTION ...% CL ACTIVE (CAS: 7681-52-9)

Corrosivity :	Causes severe skin burns. Species : Rabbit OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

c) Serious damage to eyes/eye irritation :

SODIUM HYPOCHLORITE, SOLUTION ...% CL ACTIVE (CAS: 7681-52-9)

	Species : Rabbit OECD Guideline 405 (Acute Eye Irritation / Corrosion)

d) Respiratory or skin sensitisation :

SODIUM HYPOCHLORITE, SOLUTION ...% CL ACTIVE (CAS: 7681-52-9)

Guinea Pig Maximisation Test (GMPT) :	Non-sensitiser.

e) Germ cell mutagenicity :

No data available.

f) Carcinogenicity :

SODIUM HYPOCHLORITE, SOLUTION ...% CL ACTIVE (CAS: 7681-52-9)

Carcinogenicity Test :	Negative. No carcinogenic effect. Species : Rat

g) Reproductive toxicant :

SODIUM HYPOCHLORITE, SOLUTION ...% CL ACTIVE (CAS: 7681-52-9)

No toxic effect for reproduction	
	OECD Guideline 415 (One-Generation Reproduction Toxicity Study)

h) Specific target organ systemic toxicity - single exposure :

No data available.

i) Specific target organ systemic toxicity - repeated exposure :

No data available.

j) Aspiration hazard :

No data available.

11.1.2. Mixture

a) Acute toxicity :

No data available.

b) Skin corrosion/skin irritation :

Corrosive classification is based on an extreme pH value.

Causes burns to the skin (H314).

c) Serious damage to eyes/eye irritation :

Corrosive classification is based on an extreme pH value.

Causes severe eye damage (H314).

d) Respiratory or skin sensitisation :

No data available.

e) Germ cell mutagenicity :

No data available.

f) Carcinogenicity :

No data available.

g) Reproductive toxicant :

No data available.

h) Specific target organ systemic toxicity - single exposure :

No data available.

i) Specific target organ systemic toxicity - repeated exposure :

No data available.

j) Aspiration hazard :

No data available.

11.1.2.2 Other information

Interactive effects

In contact with an acid, releases a toxic gas. EUH031.

11.2. Information on other hazards

Endocrine disrupting properties

The mixture does not contain ingredients considered to have endocrine disrupting properties according to Article 57, point f) of REACH or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or more.

Other information

May be corrosive to metals. H290.

Monograph(s) from the IARC (International Agency for Research on Cancer) :

CAS 5989-27-5 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

SECTION 12 : ECOLOGICAL INFORMATION

Very toxic to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

12.1. Toxicity

12.1.1. Substances

SODIUM HYPOCHLORITE, SOLUTION ...% CL ACTIVE (CAS: 7681-52-9)

Fish toxicity :	0.01 < LC50 <= 0.1 mg/l Factor M = 10 Duration of exposure : 96 h NOEC = 0.04 mg/l Factor M = 1 Duration of exposure : 28 days
Crustacean toxicity :	Duration of exposure : 48 h

12.1.2. Mixtures

Very toxic to aquatic life with long lasting effects (H410).

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The mixture does not contain components considered to be persistent, bio-accumulating and toxic (PBT) or very persistent and very bio-accumulating (vPvB) at levels of 0.1% or more, according to annex XIII of the REACH regulation (EC) No. 1907/2006.

12.6. Endocrine disrupting properties

The mixture does not contain ingredients considered to have endocrine disrupting properties according to Article 57, point f) of REACH or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or more.

12.7. Other adverse effects

No data available.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not throw directly into waterways or the environment. The disposal of the product / packaging with its label must be carried out in an approved waste collection center.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

All contaminated material must be considered as waste with a view to its elimination according to the regulations in force.

Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

Codes of wastes (Decision 2014/955/EC, Directive 2008/98/EEC on hazardous waste) :

16 09 04 * oxidising substances, not otherwise specified

06 02 05 * other bases

SECTION 14 : TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2021 - IMDG 2020 [40-20] - ICAO/IATA 2022 [63]).

14.1. UN number or ID number

1791

14.2. UN proper shipping name

UN1791= HYPOCHLORITE SOLUTION (SODIUM HYPOCHLORITE)

14.3. Transport hazard class(es)

- Classification :

8

14.4. Packing group

III

14.5. Environmental hazards

- Environmentally hazardous material :

14.6. Special precautions for user

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	8	C9	III	8	80	5 L	521	E1	3	E

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ	Stowage Handling	Segregation
	8	P	III	5 L	F-A. S-B	223 274 900	E1	Category B	SGG8 SG20

IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	8	-	III	852	5 L	856	60 L	A3 A803	E1
	8	-	III	Y841	1 L	-	-	A3 A803	E1

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

Marine pollutant (IMDG 3.1.2.9):(sodium hypochlorite, solution cl active)

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15 : REGULATORY INFORMATION

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

Classification and labelling information included in section 2:

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2022/692 (ATP 18)

Container information:

The mixture does not contain any substance restricted under Annex XVII of Regulation (EC) No. 1907/2006 (REACH): https://echa.europa.eu/substances-restricted-under-reach.

Particular provisions :

No data available.

Labelling for detergents (EC Regulation No. 648/2004,907/2006) :

- 5 % or over but less than 15 % : chlorine-based bleaching agents
- perfumes
- allergenic fragrances :

(r)-p-mentha-1,8-diene (= limonene)

Persistent organic pollutants (POP) (Regulation (EU) 2019/1021):

The mixture does not contain a persistent organic pollutant.

15.2. Chemical safety assessment

No data available.

SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

Wording of phrases H, EUH listed in section 3 and phrases P from 2.2 not appearing on the label :

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH031	Contact with acids liberates toxic gas.
P234	Keep only in original packaging.
P264	Wash hands thoroughly after handling.
P310	Immediately call a POISON CENTER or a doctor.
P330	Rinse mouth.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents and container to approved waste disposal facility in accordance with national regulations.

Abbreviations and acronyms :
LC50 : The concentration of a test substance resulting in 50% lethality in a given period.
LQ : Limited Quantity
EQ : Excepted Quantity
EmS : Emergency Schedule
E : Packing Instruction
NOEC : The concentration with no observed effect.
REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.
DNEL : Derived No-Effect Level
PNEC : Predicted No-Effect Concentration
STEL : Short-term exposure limit
TWA : Moyenne pondérée dans le temps
TMP : French Occupational Illness table
TLV : Threshold Limit Value (exposure)
AEV : Average Exposure Value.
ERC 10a - Wide dispersive outdoor use of long-life articles and materials with low release
ERC 10b - Wide dispersive outdoor use of long-life articles and materials with high or in-tended release (including abrasive processing)
ERC 9b - Wide dispersive outdoor use of substances in closed systems
PC 15 - Non-metal-surface treatment products
PC 35 - Washing and cleaning products (including solvent based products)
PROC 11 - Non industrial spraying
PROC 4 - Use in batch and other process (synthesis) where opportunity for exposure arises
PROC 8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
PROC 9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
SU 1 - Agriculture, forestry, fishery
SU 22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
ADR : European agreement concerning the international carriage of dangerous goods by Road.
IMDG : International Maritime Dangerous Goods.
IATA : International Air Transport Association.
ICAO : International Civil Aviation Organisation
RID : Regulations concerning the International carriage of Dangerous goods by rail.
WGK : Wassergefahrdungsklasse (Water Hazard Class).
GHS05 : Corrosion
GHS09 : Environment
PBT: Persistent, bioaccumulable and toxic.
vPvB : Very persistent, very bioaccumulable.
SVHC : Substances of very high concern.