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 : S1 PROCIDE

Product code : 60114-60115-60116

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

HYGIENE AND DISINFECTION

TP 4: Disinfectant for surfaces in contact with food and feed

Use descriptor system (REACH) :

SU: 3, 22 - PC: 8.0 - PROC: 4, 5, 7, 8a, 8b, 9, 11, 12, 13

1.3. Details of the supplier of the safety data sheet

IPC
10 Quai Malbert, 29200, BREST, FRANCE.
Tel. : +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 : INRS / 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.

Skin irritation, Category 2 (Skin Irrit. 2, H315).

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).

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

2.2. Label elements

Biocidal detergent mixture (see section 15).

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

Hazard pictograms :

GHS09

GHS05

Signal Word :

DANGER

Product identifiers :

EC 219-145-8	N-(3-AMINOPROPYL)-N-DODÉCYLPROPANE-1,3-DIAMINE
EC 500-220-1	ALKYLPOLYGLUCOSIDE C8- C10
EC 500-234-8	ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS

Hazard statements :

H315	Causes skin irritation.
H318	Causes serious eye damage.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements - Prevention :

P273	Avoid release to the environment.

P280	Wear protective gloves, protective clothing, eye protection and face protection.
Precautionary statements - Response :	
P302 + P352	IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or a doctor.
P391	Collect spillage.
Precautionary statements - Disposal :	
P501	Dispose of contents and container to approved waste disposal plant in accordance with national regulations.

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 57 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: 0107 CAS: 2372-82-9 EC: 219-145-8 REACH: 01-2119980592-29-XXXX N-(3-AMINOPROPYL)-N-DODÉCYLPROPANE-1,3-DIAMINE	GHS06, GHS05, GHS09, GHS08 Dgr Acute Tox. 3, H301 Skin Corr. 1B, H314 STOT RE 2, H373 Aquatic Acute 1, H400 M Acute = 10 Aquatic Chronic 1, H410 M Chronic = 1	[1]	2.5 <= x % < 5
INDEX: 0063 CAS: 68515-73-1 EC: 500-220-1 REACH: 01-2119488530-36-XXXX ALKYLPOLYGLUCOSIDE C8- C10	GHS05 Dgr Eye Dam. 1, H318		2.5 <= x % < 5
INDEX: 0706 CAS: 68891-38-3 EC: 500-234-8 REACH: 01-2119488639-16-XXXX ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS	GHS05 Dgr Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412		2.5 <= x % < 5
INDEX: 0402 CAS: 26183-52-8 EC: 500-046-6 DECAN-1-OL, ETHOXYLATED	GHS07, GHS05 Dgr Acute Tox. 4, H302 Eye Dam. 1, H318		0 <= x % < 2.5
INDEX: 607_428_00_2 CAS: 64-02-8 EC: 200-573-9 REACH: 01-2119486762-27 TETRASODIUM ETHYLENE DIAMINE TETRAACETATE	GHS07, GHS05, GHS08 Dgr Acute Tox. 4, H302 Eye Dam. 1, H318 Acute Tox. 4, H332 STOT RE 2, H373		0 <= x % < 2.5

Specific concentration limits:

Identification	Specific concentration limits	ATE
INDEX: 0107 CAS: 2372-82-9 EC: 219-145-8 REACH: 01-2119980592-29-XXXX N-(3-AMINOPROPYL)-N-DODÉCYLPROPANE-1,3-DIAMINE	Eye Dam. 1: H318 C>= 10% Eye Irrit. 2: H319 5% <= C < 10%	oral: ATE = 261 mg/kg BW
INDEX: 0706 CAS: 68891-38-3 EC: 500-234-8 REACH: 01-2119488639-16-XXXX ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS	Eye Dam. 1: H318 C>= 10% Eye Irrit. 2: H319 5% <= C < 10%	oral: ATE = 4100 mg/kg BW
INDEX: 0402 CAS: 26183-52-8 EC: 500-046-6 DECAN-1-OL, ETHOXYLATED		oral: ATE = 1000 mg/kg BW
INDEX: 607_428_00_2 CAS: 64-02-8 EC: 200-573-9 REACH: 01-2119486762-27 TETRASODIUM ETHYLENE DIAMINE TETRAACETATE		inhalation: ATE = 1.0001 mg/l 4h (dust/mist) oral: ATE = 1780 mg/kg BW

Information on ingredients :

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

[1] Substance for which maximum workplace exposure limits are available.

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 :

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.

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Keep the person exposed at rest. Do not force vomiting.

Seek medical attention immediately, showing the label.

If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

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

After contact with the skin :	Skin irritant, itching, redness, tissue swelling. Medical treatment is necessary, as untreated corrosive skin effects result in wounds that heal slowly and with difficulty.
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 :	May cause severe tissue irritation of the mouth, throat and gastrointestinal tract. Abdominal pain, nausea, muscle contractions, vomiting. Risk of digestive perforation with shock.
In case of inhalation :	Exposure to high concentrations results in dry throat, sore throat, cough, weakness.

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

No data available.

SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

5.1. Extinguishing media

Suitable methods of extinction

In the event of a fire, use :

- sprayed water or water mist
- foam
- multipurpose ABC 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)
- Nitrogen oxides (NOx)

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.

Use equipment of autonomous breath for the protection of respiratory tracts, as well as clothes and gloves suited for the protection of the skin.

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

Prevent fire extinguishing water from contaminating surface water or the ground water system.

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.

If large quantities are spilled, there is a risk of slipping.

For first aid worker

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

If the quantities spilled are large, there is a risk of slipping.

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 water, rivers or sewers, alert the appropriate authorities according to regulatory procedures.Place drums for waste disposal in accordance with current regulations (see section 13).

All spills should be directed to a wastewater treatment plant

All contaminated materials should be considered as waste for disposal according to local regulations.

6.3. Methods and material for containment and cleaning up

Neutralise with an acidic decontaminant.

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 water. Avoid the use of solvents.

The use of very hot water (>50°C) can accelerate product cleaning.

6.4. Reference to other sections

No data available.

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.

Ensure that there is adequate ventilation, especially in confined areas.

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

Fire prevention :

Handle in well-ventilated areas.

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.

Avoid eye contact with this mixture at all times.

Packages which have been opened must be reclosed carefully and stored in an upright position.

Prohibited equipment and procedures :

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

7.2. Conditions for safe storage, including any incompatibilities

To keep the quality of the product, not store in the heat and nor in the sun

Keep away from acid products.

Keep away from chlorites and hypochlorites.

Refer to section 10.5 for incompatibilities.

Storage

Keep the container tightly closed in a dry, well-ventilated place.

The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

Store in its original packing, closed well. Keep out of light, heat, frost and humidity.

Recommended temperature of storage: < 40°C

Packaging

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

Recommended types of packaging :

- Vats
- Bottles
- Drums

Suitable packaging materials :

- Plastic
- Compatible grades HDPE.

Unsuitable packaging materials :

- Wood
- Cardboard
- Copper
- Iron

- Zinc
- Paper bag
- Textile

7.3. Specific end use(s)

The mixture is a biocidal product. It must not be used for applications other than those described in this safety data sheet and in the technical documents concerning the product.

Product intended for strictly professional use.

Disinfectant for food areas: food shops and restaurants, agro-food industries (dairy, meat, cereals, non-alcoholic beverages and alcoholic beverages, creameries, butter ...).

Do not mix with other detergents or biocidal products.

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

Respect the conditions of use of the product (concentration, contact time, ...).

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits :

- Germany - AGW (BAuA - TRGS 900, 02/2022) :

CAS	VME :	VME :	Excess	Notes
2372-82-9		0.05 E mg/m3		8 (II)

- Switzerland (Suva 2021) :

CAS	VME	VLE	Valeur plafond	Notations
2372-82-9	0.05 ppm	0.4 ppm		

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

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE (CAS: 64-02-8)

Final use: **Workers.**

Exposure method: Inhalation.
Potential health effects: Short term systemic effects.
DNEL : 3 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Short term local effects.
DNEL : 3 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 1.5 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Long term local effects.
DNEL : 1.5 mg of substance/m3

Final use: **Consumers.**

Exposure method: Ingestion.
Potential health effects: Long term systemic effects.
DNEL : 25 mg/kg body weight/day

Exposure method: Inhalation.
Potential health effects: Short term local effects.
DNEL : 1.2 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Short term systemic effects.
DNEL : 1.2 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.

DNEL :	0.6 mg of substance/m3
Exposure method:	Inhalation.
Potential health effects:	Long term local effects.
DNEL :	0.6 mg of substance/m3

ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS (CAS: 68891-38-3)

Final use:	**Workers.**
Exposure method:	Dermal contact.
Potential health effects:	Long term systemic effects.
DNEL :	2750 mg/kg body weight/day
Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.
DNEL :	175 mg of substance/m3
Final use:	**Consumers.**
Exposure method:	Ingestion.
Potential health effects:	Long term systemic effects.
DNEL :	15 mg/kg body weight/day
Exposure method:	Dermal contact.
Potential health effects:	Long term systemic effects.
DNEL :	1650 mg/kg body weight/day
Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.
DNEL :	52 mg of substance/m3

ALKYLPOLYGLUCOSIDE C8- C10 (CAS: 68515-73-1)

Final use:	**Workers.**
Exposure method:	Dermal contact.
Potential health effects:	Long term systemic effects.
DNEL :	59500 mg/kg body weight/day
Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.
DNEL :	420 mg of substance/m3
Final use:	**Consumers.**
Exposure method:	Dermal contact.
Potential health effects:	Long term systemic effects.
DNEL :	357000 mg/kg body weight/day
Exposure method:	Dermal contact.
Potential health effects:	Long term systemic effects.
DNEL :	35.7 mg/kg body weight/day
Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.
DNEL :	124 mg of substance/m3

N-(3-AMINOPROPYL)-N-DODÉCYLPROPANE-1,3-DIAMINE (CAS: 2372-82-9)

Final use:	**Workers.**
Exposure method:	Dermal contact.
Potential health effects:	Long term systemic effects.
DNEL :	0.91 mg/kg body weight/day

Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.
DNEL :	2.35 mg of substance/m3

Final use: **Consumers.**

Exposure method:	Ingestion.
Potential health effects:	Long term systemic effects.
DNEL :	0.2 mg/kg body weight/day
Exposure method:	Dermal contact.
Potential health effects:	Long term systemic effects.
DNEL :	0.54 mg/kg body weight/day
Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.
DNEL :	0.7 mg of substance/m3

Predicted no effect concentration (PNEC):

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE (CAS: 64-02-8)

Environmental compartment:	Soil.
PNEC :	0.95 mg/kg
Environmental compartment:	Fresh water.
PNEC :	2.8 mg/l
Environmental compartment:	Sea water.
PNEC :	0.28 mg/l
Environmental compartment:	Intermittent waste water.
PNEC :	1.6 mg/l
Environmental compartment:	Waste water treatment plant.
PNEC :	57 mg/l

ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS (CAS: 68891-38-3)

Environmental compartment:	Soil.
PNEC :	0.946 mg/kg
Environmental compartment:	Fresh water.
PNEC :	0.24 mg/l
Environmental compartment:	Sea water.
PNEC :	0.024 mg/l
Environmental compartment:	Intermittent waste water.
PNEC :	0.071 mg/l
Environmental compartment:	Fresh water sediment.
PNEC :	5.45 mg/kg
Environmental compartment:	Marine sediment.
PNEC :	0.545 mg/kg
Environmental compartment:	Waste water treatment plant.
PNEC :	10000 mg/l

ALKYLPOLYGLUCOSIDE C8- C10 (CAS: 68515-73-1)

Environmental compartment:	Soil.

PNEC : 0.654 mg/kg

Environmental compartment: Fresh water.
PNEC : 0.1 mg/l

Environmental compartment: Sea water.
PNEC : 0.01 mg/l

Environmental compartment: Intermittent waste water.
PNEC : 0.27 mg/l

Environmental compartment: Fresh water sediment.
PNEC : 0.487 mg/kg

Environmental compartment: Marine sediment.
PNEC : 0.048 mg/kg

Environmental compartment: Waste water treatment plant.
PNEC : 560 mg/l

N-(3-AMINOPROPYL)-N-DODÉCYLPROPANE-1,3-DIAMINE (CAS: 2372-82-9)

Environmental compartment: Soil.
PNEC : 45.34 mg/l

Environmental compartment: Fresh water.
PNEC : 0.001 mg/l

Environmental compartment: Sea water.
PNEC : 0.0001 mg/l

Environmental compartment: Fresh water sediment.
PNEC : 8.5 mg/l

Environmental compartment: Marine sediment.
PNEC : 0.85 mg/l

Environmental compartment: Waste water treatment plant.
PNEC : 1.33 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 EN166.

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

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 :

- Butyl Rubber (Isobutylene-isoprene copolymer)
- Natural latex
- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))
- Neoprene® (Polychloroprene)
- PVC (polyvinyl chloride)

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 :

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 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 minor spatter, wear protective boots or half-boots against chemical risks in accordance with standard EN13832-2.

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 :

- A2 (Brown)
- NOP3 (Blue + white)

Particle filter according to standard EN143 :

- P2 (White)

In normal use, a breathing protection is not required.

Use a respiratory protection device to carry out operations that may release vapors / mists / aerosols from the product.

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.
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%) = 8.7 +/- 0.3

pH : 9.50 +/- 0.50.
Slightly 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 : = 1.025 +/- 0.015 g/cm3 (20°C)

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.

9.2.2. Other safety characteristics

No data available.

SECTION 10 : STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

10.4. Conditions to avoid

Avoid :

- frost
- exposure to light
- heat

10.5. Incompatible materials

Keep away from :

- strong acids
- oxidising agents
- chlorites and hypochlorites.

Do not mix with other desinfectants.

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO2)
- nitrogen oxides (NOx)

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 inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

May have irreversible effects on the eyes, such as tissue damage in the eye, or serious physical decay of sight, which is not fully reversible by the end of observation at 21 days.

Serious eye damage is typified by the destruction of cornea, persistent corneal opacity and iritis.

11.1.1. Substances

Acute toxicity :

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE (CAS: 64-02-8)

Oral route :	LD50 = 1780 mg/kg bodyweight/day Species : Rat
Inhalation route (Dusts/mist) :	LC50 = 1.0001 mg/l Species : Rat Duration of exposure : 4 h

DECAN-1-OL, ETHOXYLATED (CAS: 26183-52-8)

Oral route :	LD50 = 1000 mg/kg bodyweight/day Species : Rat
Dermal route :	LD50 > 2000 mg/kg bodyweight/day Species : Rat

ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS (CAS: 68891-38-3)

Oral route :	LD50 = 4100 mg/kg bodyweight/day Species : Rat OECD Guideline 401 (Acute Oral Toxicity)
Dermal route :	LD50 > 5000 mg/kg bodyweight/day Species : Rat OECD Guideline 402 (Acute Dermal Toxicity)

ALKYLPOLYGLUCOSIDE C8- C10 (CAS: 68515-73-1)

Oral route :	LD50 > 5000 mg/kg bodyweight/day Species : Rat OECD Guideline 401 (Acute Oral Toxicity)
Dermal route :	LD50 > 2000 mg/kg bodyweight/day Species : Rabbit OECD Guideline 402 (Acute Dermal Toxicity)

N-(3-AMINOPROPYL)-N-DODÉCYLPROPANE-1,3-DIAMINE (CAS: 2372-82-9)

Oral route :	LD50 = 261 mg/kg bodyweight/day Species : Rat OECD Guideline 401 (Acute Oral Toxicity)

Skin corrosion/skin irritation :

N-(3-AMINOPROPYL)-N-DODÉCYLPROPANE-1,3-DIAMINE (CAS: 2372-82-9)

Species : Rabbit
OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Respiratory or skin sensitisation :

DECAN-1-OL, ETHOXYLATED (CAS: 26183-52-8)

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

N-(3-AMINOPROPYL)-N-DODÉCYLPROPANE-1,3-DIAMINE (CAS: 2372-82-9)
Other guideline

Buehler Test : Non-sensitiser.
Species : Guinea pig
Other guideline

Germ cell mutagenicity :

N-(3-AMINOPROPYL)-N-DODÉCYLPROPANE-1,3-DIAMINE (CAS: 2372-82-9)

Mutagenesis (in vitro) : Negative.
OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)

Ames test (in vitro) : Negative.

DECAN-1-OL, ETHOXYLATED (CAS: 26183-52-8)
No mutagenic effect.

Mutagenesis (in vitro) : Negative.
OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)

ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS (CAS: 68891-38-3)
No mutagenic effect.

ALKYLPOLYGLUCOSIDE C8- C10 (CAS: 68515-73-1)
No mutagenic effect.

Mutagenesis (in vivo) : Negative.
Species : Mouse
REACH Method B.12 (Mutagenicity - In Vivo Mammalian Erythrocyte Micronucleus Test)

Mutagenesis (in vitro) : Negative.
Species : Mammalian Cell Line
OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)

Ames test (in vitro) : Negative.
With or without metabolic activation.

Carcinogenicity :

DECAN-1-OL, ETHOXYLATED (CAS: 26183-52-8)

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

ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS (CAS: 68891-38-3)

Carcinogenicity Test : Negative.
No carcinogenic effect.

Reproductive toxicant :

ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS (CAS: 68891-38-3)
No toxic effect for reproduction

Specific target organ systemic toxicity - repeated exposure :

DECAN-1-OL, ETHOXYLATED (CAS: 26183-52-8)

Oral route :	C > 80 mg/kg bodyweight/day Duration of exposure : 90 days OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Dermal route :	C = 80 mg/kg bodyweight/day Duration of exposure : 90 days OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)

ALKYLPOLYGLUCOSIDE C8- C10 (CAS: 68515-73-1)

Oral route :	C = 100 mg/kg bodyweight/day Species : Rat Duration of exposure : 90 days OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

N-(3-AMINOPROPYL)-N-DODÉCYLPROPANE-1,3-DIAMINE (CAS: 2372-82-9)

Oral route :	10 < C <= 50 mg/kg body weight/day Species : Rat Duration of exposure : 90 days

11.1.2. Mixture

Skin corrosion/skin irritation :

Causes skin irritation (H315).

Serious damage to eyes/eye irritation :

Causes serious eye damage. (H318).

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.

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

ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS (CAS: 68891-38-3)

Fish toxicity :	LC50 = 7.1 mg/l Duration of exposure : 96 h OECD Guideline 203 (Fish, Acute Toxicity Test) NOEC = 1 mg/l OECD Guideline 203 (Fish, Acute Toxicity Test)
Crustacean toxicity :	EC50 = 7.2 mg/l Species : Daphnia magna Duration of exposure : 48 h OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) NOEC = 0.27 mg/l Species : Daphnia magna OECD Guideline 211 (Daphnia magna Reproduction Test)
Algae toxicity :	ECr50 = 27.7 mg/l Duration of exposure : 72 h OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC = 0.95 mg/l

OECD Guideline 201 (Alga, Growth Inhibition Test)

N-(3-AMINOPROPYL)-N-DODÉCYLPROPANE-1,3-DIAMINE (CAS: 2372-82-9)

Fish toxicity :
Species : Danio rerio
Duration of exposure : 96 h
OECD Guideline 203 (Fish, Acute Toxicity Test)

Crustacean toxicity :
Species : Daphnia magna
Duration of exposure : 48 h
OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Species : Daphnia magna
Duration of exposure : 21 days
OECD Guideline 211 (Daphnia magna Reproduction Test)

Algae toxicity :
Species : Pseudokirchnerella subcapitata
Duration of exposure : 72 h
OECD Guideline 201 (Alga, Growth Inhibition Test)

Species : Pseudokirchnerella subcapitata
Duration of exposure : 72 h
OECD Guideline 201 (Alga, Growth Inhibition Test)

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE (CAS: 64-02-8)

Fish toxicity :
LC50 > 100 mg/l
Species : Lepomis macrochirus
Duration of exposure : 96 h
EPA OPP 72-1 (Fish Acute Toxicity Test)

NOEC >= 36.9 mg/l
Species : Brachydanio rerio
Duration of exposure : 35 days
OECD Guideline 210 (Fish, Early-Life Stage Toxicity Test)

Crustacean toxicity :
EC50 > 100 mg/l
Species : Daphnia magna
Duration of exposure : 48 h

NOEC = 25 mg/l
Species : Daphnia magna
Duration of exposure : 21 days
OECD Guideline 211 (Daphnia magna Reproduction Test)

DECAN-1-OL, ETHOXYLATED (CAS: 26183-52-8)

Fish toxicity :
LC50 < 7 mg/l
Duration of exposure : 96 h

Crustacean toxicity :
EC50 = 5.3 mg/l
Duration of exposure : 48 h

Algae toxicity :
ECr50 < 47 mg/l
Duration of exposure : 72 h

ALKYLPOLYGLUCOSIDE C8- C10 (CAS: 68515-73-1)

Fish toxicity :
LC50 = 96.64 mg/l
Duration of exposure : 96 h
OECD Guideline 203 (Fish, Acute Toxicity Test)

NOEC > 21 mg/l

Species : Cyprinodon variegatus
Duration of exposure : 96 h
OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)

Crustacean toxicity : EC50 > 100 mg/l
Species : Daphnia magna
Duration of exposure : 48 h
OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Algae toxicity : ECr50 = 37 mg/l
Species : Desmodesmus subspicatus
Duration of exposure : 72 h

NOEC = 10 mg/l
Species : Skeletonema costatum
Duration of exposure : 72 h

12.1.2. Mixtures

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

12.2. Persistence and degradability

12.2.1. Substances

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE (CAS: 64-02-8)
Biodegradability : Non-rapidly degradable.

DECAN-1-OL, ETHOXYLATED (CAS: 26183-52-8)
Biodegradability : Rapidly degradable.

ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS (CAS: 68891-38-3)
Biodegradability : Rapidly degradable.

ALKYLPOLYGLUCOSIDE C8- C10 (CAS: 68515-73-1)
Biodegradability : Rapidly degradable.

N-(3-AMINOPROPYL)-N-DODÉCYLPROPANE-1,3-DIAMINE (CAS: 2372-82-9)
Biodegradability : Rapidly degradable.

12.2.2. Mixtures

Surfactant(s) contained in this preparation complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No 648/2004 on detergents.

12.3. Bioaccumulative potential

12.3.1. Substances

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE (CAS: 64-02-8)
Octanol/water partition coefficient : log Koe = -13

Bioaccumulation : BCF = 1.8
Species : Lepomis macrochirus (Fish)

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The blend does not contain any ingredients considered persistent, bio-accumulating and toxic (PBT), or very persistent and very bio-accumulating (vPvB) at levels of 0.1% or greater, in accordance with appendix XIII of the REACH regulation (EC) n°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 dispose of the product in drains (sinks, toilets, etc.), gutters, waterways, in the open field or in any other outdoor environment.

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) :

15 02 02 * absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances

15 01 10 * packaging containing residues of or contaminated by dangerous substances

07 06 04 * other organic solvents, washing liquids and mother liquors

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

3082

14.2. UN proper shipping name

UN3082=ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(n-(3-aminopropyl)-n-dodécylpropane-1,3-diamine)

14.3. Transport hazard class(es)

- Classification :

9

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
	9	M6	III	9	90	5 L	274 335 375 601	E1	3	-

Not subject to this regulation if Q <= 5 l / 5 kg (ADR 3.3.1 - DS 375)

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ	Stowage Handling	Segregation
	9	-	III	5 L	F-A. S-F	274 335 969	E1	Category A	-

Not subject to this regulation if Q <= 5 l / 5 kg (IMDG 3.3.1 - 2.10.2.7)

IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	9	-	III	964	450 L	964	450 L	A97 A158 A197 A215	E1
	9	-	III	Y964	30 kg G	-	-	A97 A158 A197 A215	E1

Not subject to this regulation if Q <= 5 l / 5 kg (IATA 4.4.4 - DS A197)

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):(n-(3-aminopropyl)-n-dodécylpropane-1,3-diamine)

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.

For returnable packaging in the agricultural and wine-growing sectors, the empty packaging will be taken back by an approved organization (such as ADIVALOR, EMBIPAC...) for France. Introduction of an eco-contribution, in line with the law on the circular economy

Particular provisions :

No data available.

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

- less than 5 % : anionic surfactants
- 5 % or over but less than 15 % : non-ionic surfactants
- less than 5 % : EDTA and salts thereof
- disinfectants

Labelling for biocidal products (Regulation (UE) n° 528/2012) :

Name	CAS	%	Product-type
N-(3-AMINOPROPYL)-N-DODÉCYLPROPANE-1,3-DIAMINE	2372-82-9	47.00 g/kg	04

Product-type 4 : Food and feed area.
Type of preparation : SL - soluble concentrate

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 the phrases mentioned in section 3 :

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.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure .
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms :

LD50 : The dose of a test substance resulting in 50% lethality in a given time period.
LC50 : The concentration of a test substance resulting in 50% lethality in a given period.
EC50 : The effective concentration of substance that causes 50% of the maximum response.
ECr50 : The effective concentration of substance that causes 50% reduction in growth rate.
NOEC : The concentration with no observed effect.
REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.
ATE : Acute Toxicity Estimate
BW : Body Weight
DNEL : Derived No-Effect Level
PNEC : Predicted No-Effect Concentration
STEL : Short-term exposure limit
TWA : Time Weighted Averages
TMP : French Occupational Illness table
TLV : Threshold Limit Value (exposure)
AEV : Average Exposure Value.
PC 8 - Biocidal products (e.g. Disinfectants, pest control)
PROC 11 - Non industrial spraying
PROC 12 - Use of blowing agents in manufacture of foam
PROC 13 - Treatment of articles by dipping andpouring
PROC 4 - Use in batch and other process (synthesis) where opportunity for exposure arises
PROC 5 - Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)
PROC 7 - Industrial spraying
PROC 8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
PROC 8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
PROC 9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
SU 22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
SU 3 - Industrial uses: Uses of substances as such or in preparations at industrial sites
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.