

S1 AA

## 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 AA  
Product code : 60111-60112-60113

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

CAR MAINTENANCE

Car care

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 - PC: 35.0 - PROC: 3, 4, 8a, 8b, 9, 11 - ERC: 8b, 8e, 10a

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

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

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

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

#### 2.2. Label elements

Detergent mixture (see section 15).

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

Hazard pictograms :



GHS05

Signal Word :

DANGER

Product identifiers :

EC 200-573-9

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE

EC 215-185-5

SODIUM HYDROXIDE

Hazard statements :

H314

Causes severe skin burns and eye damage.

Precautionary statements - Prevention :

P280

Wear protective gloves, protective clothing and eye protection.

**S1 AA**

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.  
P310 Immediately call a POISON CENTER or a doctor.

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)  $\geq 0.1\%$  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  $\geq 0.1\%$  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: 607_428_00_2 CAS: 64-02-8 EC: 200-573-9 REACH: 01-2119486762-27  TETRASODIUM ETHYLENE DIAMINE TETRAACETATE	GHS07, GHS08 Wng Acute Tox. 4, H302 Acute Tox. 4, H332 STOT RE 2, H373		2.5 $\leq$ x % < 10
INDEX: 011_002_00_6 CAS: 1310-73-2 EC: 215-185-5 REACH: 01-2119457892-27-XXXX  SODIUM HYDROXIDE	GHS05 Dgr Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318	[1]	0 $\leq$ x % < 2.5
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		0 $\leq$ x % < 2.5
INDEX: 0014 CAS: 126-92-1 EC: 204-812-8 REACH: 01-2119971586-23-XXXX  SODIUM ETASULFATE	GHS05 Dgr Skin Irrit. 2, H315 Eye Dam. 1, H318		0 $\leq$ x % < 2.5
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 $\leq$ x % < 2.5

**Specific concentration limits:**

Identification	Specific concentration limits	ATE
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

**S1 AA**

INDEX: 011_002_00_6 CAS: 1310-73-2 EC: 215-185-5 REACH: 01-2119457892-27-XXXX <b>SODIUM HYDROXIDE</b>	Skin Corr. 1A: H314 C <sub>≥</sub> 5% Skin Corr. 1B: H314 2% ≤ C < 5% Skin Irrit. 2: H315 0.5% ≤ C < 2% Eye Dam. 1: H318 C <sub>≥</sub> 2% Eye Irrit. 2: H319 0.5% ≤ C < 2%	
INDEX: 0706 CAS: 68891-38-3 EC: 500-234-8 REACH: 01-2119488639-16-XXXX <b>ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS</b>	Eye Dam. 1: H318 C <sub>≥</sub> 10% Eye Irrit. 2: H319 5% ≤ C < 10%	oral: ATE = 4100 mg/kg BW
INDEX: 0014 CAS: 126-92-1 EC: 204-812-8 REACH: 01-2119971586-23-XXXX <b>SODIUM ETASULFATE</b>	Eye Dam. 1: H318 C <sub>≥</sub> 20% Eye Irrit. 2: H319 10% ≤ C < 20%	oral: ATE = 2840 mg/kg BW
INDEX: 0402 CAS: 26183-52-8 EC: 500-046-6 <b>DECAN-1-OL, ETHOXYLATED</b>		oral: ATE = 1000 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 quantities have 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 area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

Remove contaminated clothing and wash before reuse. Rinse skin with plenty of water for 15 minutes. In severe cases or if you feel unwell, consult a doctor.

**In the event of swallowing :**

Do not give the patient anything orally.

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.

Intervene very quickly - Alert a doctor - Never induce vomiting or drinking if the patient is unconscious or having convulsions.

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

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.

After contact with the skin :

Corrosive to the skin. Causes severe burns. Risk of ulceration of the skin.

---

S1 AA

---

**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
- halon
- foam
- multipurpose ABC powder
- carbon dioxide (CO<sub>2</sub>)
- 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 (CO<sub>2</sub>)
- sulphur dioxide (SO<sub>2</sub>)
- nitrogen oxide (NO)

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

Cool containers / tanks with water spray

---

**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).

Protective equipment resistant to corrosive products: gloves, boots, protective clothing, eye and face protection

**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.

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.

Use an absorbing product (sand, vermiculite, land,...) and collect all the waste for disposal.

Clean the contaminated area with water.

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

---

**S1 AA**

---

Collect water used for cleaning. Dispose of the contaminated water according to regional regulations.  
Neutralize with a dilute solution of acetic acid.

**6.4. Reference to other sections**

Section 7: Handling and Storage  
Section 8: exposure control and personal protection  
Section 10: Incompatible materials.  
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.  
Ensure that there is adequate ventilation, especially in confined areas.  
Keep out of the reach of children.  
Ensure adequate ventilation, especially in confined areas.  
Provide safety showers and eye fountains in workshops where the product is regularly handled.

**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.  
Packages which have been opened must be reclosed carefully and stored in an upright position.  
Staff must ensure that work clothes are clean and that protective equipment is in good working order.

**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**

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.  
Keep away from acidic products.  
Recommended storage temperature: 5 to 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
- Paper bag
- Textile

**7.3. Specific end use(s)**

Product intended for strictly professional use.  
Do not mix with other detergents.  
Always read the label or the instructions before use, and follow all the instructions given there.

S1 AA

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.

**SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

**Occupational exposure limits :**

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
1310-73-2			2 mg/m3		

- France (INRS - Outils 65 / 2021-1849, 2021-1763, decree of 09/12/2021) :

CAS	VME-ppm :	VME-mg/m3 :	VLE-ppm :	VLE-mg/m3 :	Notes :	TMP No :
1310-73-2	-	2	-	-	-	-

- Switzerland (Suva 2021) :

CAS	VME	VLE	Valeur plafond	Notations
1310-73-2	2 ppm	2 ppm		

- UK / WEL (Workplace exposure limits, EH40/2005, Fourth Edition 2020) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
1310-73-2		2 mg/m3			

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

SODIUM ETASULFATE (CAS: 126-92-1)

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Workers.**

Dermal contact.  
Long term systemic effects.  
4060 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term systemic effects.  
285 mg of substance/m3

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Consumers.**

Ingestion.  
Long term systemic effects.  
24 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Dermal contact.  
Long term systemic effects.  
2440 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term systemic effects.  
85 mg of substance/m3

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

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Workers.**

Dermal contact.  
Long term systemic effects.  
2750 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term systemic effects.  
175 mg of substance/m3

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Consumers.**

Ingestion.  
Long term systemic effects.  
15 mg/kg body weight/day

S1 AA

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

SODIUM HYDROXIDE (CAS: 1310-73-2)

**Final use:** **Workers.**  
Exposure method: Inhalation.  
Potential health effects: Long term local effects.  
DNEL : 1.0 mg of substance/m3

**Final use:** **Consumers.**  
Exposure method: Inhalation.  
Potential health effects: Long term local effects.  
DNEL : 1.0 mg of substance/m3

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

S1 AA

**Predicted no effect concentration (PNEC):**

SODIUM ETASULFATE (CAS: 126-92-1)

Environmental compartment: PNEC :	Soil. 0.22 mg/kg
Environmental compartment: PNEC :	Fresh water. 0.1357 mg/l
Environmental compartment: PNEC :	Sea water. 0.01357 mg/l
Environmental compartment: PNEC :	Intermittent waste water. 4.83 mg/l
Environmental compartment: PNEC :	Fresh water sediment. 1.5 mg/kg
Environmental compartment: PNEC :	Marine sediment. 0.15 mg/kg
Environmental compartment: PNEC :	Waste water treatment plant. 1.35 mg/l

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

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

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

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



S1 AA

PNEC : 57 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

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

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)
- Butyl Rubber (Isobutylene-isoprene copolymer)
- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))
- Neoprene® (Polychloroprene)

Recommended properties :

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

#### - 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.

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

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.

Wash contaminated clothing before reuse.

#### - Respiratory protection

Category :

- FFP2

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

- A1 (Brown)
- A2 (Brown)

S1 AA

- A3 (Brown)

Particle filter according to standard EN143 :

- P2 (White)

In normal use, a breathing protection is not required.

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 case of dust/vapor or mist generation, use an appropriate breathing mas with filter type: A/P2 (DIN/EN 141).

**Exposure controls linked to environmental protection**

Spillage of large quantities into drains, sewers or waterways can lead to a sharp increase in the pH value, which is harmful to aquatic organisms. Do not throw directly into the environment.

**SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES**

**9.1. Information on basic physical and chemical properties**

**Physical state**

Physical state : Fluid liquid.

**Colour**

Color : Limpid pink red

**Odour**

Odour threshold : Not stated.

Odour : Lemon

**Melting point**

Melting point/melting range : Not specified.

**Freezing point**

Freezing point / Freezing range : Not stated.

**Boiling point or initial boiling point and boiling range**

Boiling point/boiling range : Not specified.

**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 specified.

**Decomposition temperature**

Decomposition point/decomposition range : Not specified.

**pH**

pH : Not stated.  
Strongly basic.

pH (aqueous solution) : Not stated.

Pure pH >= 12.50

**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 : 1.10 g/cm<sup>3</sup> +/- 0.02 à 20°C

---

S1 AA

---

**Relative vapour density**

Vapour density : Not stated.

**Particle characteristics**

The mixture does not contain nanoforms.

**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**

This product is not compatible with halogenated compounds such as chlorine or bromine.

This mixture is not reactive under normal ambient conditions.

**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 :

- acids
- halogen compounds
- chlorites and hypochlorites.

**10.6. Hazardous decomposition products**

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)
- sulphur dioxide (SO<sub>2</sub>)
- nitrogen oxide (NO)

---

**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**

**Acute toxicity :**

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

SODIUM ETASULFATE (CAS: 126-92-1)

Oral route : LD50 = 2840 mg/kg bodyweight/day

S1 AA

Species : Rat

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

Inhalation route (Dusts/mist) : LC50 > 5 mg/l  
Species : Mouse  
Duration of exposure : 4 h

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)

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

**Serious damage to eyes/eye irritation :**

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

Conjunctival redness : Average score < 2

Conjunctival oedema : Average score < 2

**Respiratory or skin sensitisation :**

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

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

SODIUM ETASULFATE (CAS: 126-92-1)

Local lymph node stimulation test : Non-Sensitiser.  
Species : Mouse  
OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

**Germ cell mutagenicity :**

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

No mutagenic effect.

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

SODIUM ETASULFATE (CAS: 126-92-1)

No mutagenic effect.

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

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

No mutagenic effect.

**S1 AA**

**Carcinogenicity :**

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

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

SODIUM ETASULFATE (CAS: 126-92-1)

Carcinogenicity Test : Negative.  
No carcinogenic effect.  
Species : Rat  
OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

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)

SODIUM ETASULFATE (CAS: 126-92-1)

Oral route : C = 488 mg/kg bodyweight/day  
Species : Rat  
Duration of exposure : 90 days  
OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

Dermal route : C = 400 mg/kg bodyweight/day  
Species : Rat  
Duration of exposure : 90 days  
OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)

**11.1.2. Mixture**

**Skin corrosion/skin irritation :**

Corrosive classification is based on an extreme pH value.

Causes burns to the skin (H314).

**Serious damage to eyes/eye irritation :**

Corrosive classification is based on an extreme pH value.

Causes severe eye damage (H314).

**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.

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

CAS 97-53-0 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

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

S1 AA

SECTION 12 : ECOLOGICAL INFORMATION

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)

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

SODIUM ETASULFATE (CAS: 126-92-1)

Fish toxicity : LC50 > 100 mg/l  
Duration of exposure : 96 h  
OECD Guideline 203 (Fish, Acute Toxicity Test)

Crustacean toxicity : EC50 = 483 mg/l  
Duration of exposure : 48 h  
REACH Method C.2 (Acute Toxicity for Daphnia)

NOEC = 1.4 mg/l  
Species : Daphnia magna  
Duration of exposure : 21 days  
OECD Guideline 211 (Daphnia magna Reproduction Test)

Algae toxicity : ECr50 > 511 mg/l  
Duration of exposure : 72 h  
REACH Method C.3 (Algal Inhibition test)

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

Fish toxicity : LC50 > 100 mg/l

## S1 AA

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)

### 12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

### 12.2. Persistence and degradability

#### 12.2.1. Substances

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

SODIUM ETASULFATE (CAS: 126-92-1)  
Biodegradability : Rapidly degradable.

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

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

SODIUM ETASULFATE (CAS: 126-92-1)  
Octanol/water partition coefficient : log K<sub>ow</sub> = -0.2476

Bioaccumulation : BCF < 73

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE (CAS: 64-02-8)  
Octanol/water partition coefficient : log K<sub>ow</sub> = -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.

S1 AA

**12.7. Other adverse effects**

Discharge of large quantities into drains or waters can lead to a sharp increase in the pH value, which is harmful to aquatic organisms.

**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) :**

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 2023 - IMDG 2022 [41-22] - ICAO/IATA 2023 [64]).

**14.1. UN number or ID number**

3267

**14.2. UN proper shipping name**

UN3267=CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.

(tetrasodium ethylene diamine tetraacetate, sodium hydroxide)

**14.3. Transport hazard class(es)**

- Classification :



8

**14.4. Packing group**

III

**14.5. Environmental hazards**

-

**14.6. Special precautions for user**

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	8	C7	III	8	80	5 L	274	E1	3	E

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ	Stowage Handling	Segregation
	8	-	III	5 L	F-A. S-B	223 274	E1	Category A SW2	SGG18 SG35

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.



S1 AA

**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:**

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

**Restrictions applied under Title VIII of Regulation (EC) No. 1907/2006 (REACH):**

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>.

**Explosives precursors :**

The mixture does not contain any substance subject to Regulation (EU) 2019/1148 on the marketing and use of explosives precursors.

**Particular provisions :**

No data available.

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

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

Limonene

**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.

**Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 :**

Classification in accordance with Regulation (EC) No 1272/2008	Classification procedure
Skin Corr. 1, H314	Minimum classification.
Eye Dam. 1, H318	Minimum classification.

**Wording of the phrases mentioned in section 3 :**

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure .
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.

---

**S1 AA**

---

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.

ERC 10a - Wide dispersive outdoor use of long-life articles and materials with low release

ERC 8b - Wide dispersive indoor use of reactive substances in open systems

ERC 8e - Wide dispersive outdoor use of reactive substances in open systems

PC 35 - Washing and cleaning products (including solvent based products)

PROC 11 - Non industrial spraying

PROC 3 - Use in closed batch process (synthesis or formulation)

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 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)

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 : Wassergefährdungsklasse (Water Hazard Class).

GHS05 : Corrosion

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.