

**SECTION 1. Identification of the substance/mixture and of the company/enterprise****1.1. Product identifier**

Product name : STARCLEAN  
Product code: refer to sales department

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

Oven cleaners  
Sectors of use:  
Industrial Manufacturing[SU3], Public domain (administration, education, entertainment, services, craftsmen)[SU22]  
Product category:  
Washing and Cleaning Products (including solvent based products)  
Process categories:  
Use in batch and other process (syn- thesis) where opportunity for exposure arises[PROC4], Transfer of substance or mixture (charging and discharging) at nondedicated facilities[PROC8A], Transfer of substance or mixture (charging and discharging) at dedicated facilities[PROC8B]

Not recommended uses  
Do not use for purposes other than those listed

**1.3. Details of the supplier of the safety data sheet**

Distributore esclusivo/Exclusive supplier:  
ANGELO PO Grandi Cucine  
41012 Carpi (Italy) S/S Romana Sud, 90  
Tel. +39.059.639411 - Fax +39.059.642499  
e-mail: angelopo@angelopo.it http: www.angelopo.it

**1.4. Emergency telephone number**

Centralino/Switchboard +39.030.2307.1 - (h 8.30-12.00 13.30-18.00 GMT+1; Lingua/Language: Italiano, English)

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

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms:  
GHS05

Hazard Class and Category Code(s):  
Met. Corr. 1, Skin Corr. 1B, Eye Dam. 1

Hazard statement Code(s):  
H290 - May be corrosive to metals.  
H314 - Causes severe skin burns and eye damage.  
H318 - Causes serious eye damage.

The product can be corrosive to metals  
Corrosive product: causes severe skin burns and eye damage.  
If brought into contact with eyes, the product causes serious damages to eyes, such as an opaque cornea or injury to iris.

## 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):  
GHS05 - Danger



Hazard statement Code(s):  
H290 - May be corrosive to metals.  
H314 - Causes severe skin burns and eye damage.

Supplemental Hazard statement Code(s):  
not applicable

Precautionary statements:

Prevention

P260 - Do not breathe vapours/spray.  
P280 - Wear protective gloves/clothing and eye/face protection.

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.

Contains:  
sodium hydroxide

Contains (Reg.EC 648/2004):  
< 5% non-ionic surfactants, anionic surfactants

## 2.3. Other hazards

The substance / mixture does NOT contain substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

Do not ingest. Keep out of reach of children.

## SECTION 3. Composition/information on ingredients

### 3.1 Substances

Irrilevant

### 3.2 Mixtures

Refer to paragraph 16 for full text of hazard statements

Substance	Concentration[w/w]	Classification	Index	CAS	EINECS	REACH
2-Butoxyethanol	>= 5 < 10%	Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319;	603-014-00-0	111-76-2	203-905-0	01-2119475 108-36-XXX X

Substance	Concentration[ w/w]	Classification	Index	CAS	EINECS	REACH
		Acute Tox. 4, H332 ATE oral = 1.200,0 mg/kg ATE inhal = 11,0mg/l/4 h				
Sodium hydroxide	$\geq 3 < 5\%$	Met. Corr. 1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318 Limits: Skin Corr. 1A, H314 %C $\geq 5$ ; Skin Corr. 1B, H314 2 $\leq$ %C $< 5$ ; Eye Irrit. 2, H319 0,5 $\leq$ %C $< 2$ ; Eye Dam. 1, H318 %C $\geq 2$ ; Skin Irrit. 2, H315 %C $\geq 0,5$ ;	011-002-00-6	1310-73-2	215-185-5	01-2119457 892-27-XXX X
Sodium etasulfate	$\geq 1 < 2,5\%$	Skin Irrit. 2, H315; Eye Dam. 1, H318 Limits: Eye Dam. 1, H318 %C $\geq 20$ ; Eye Irrit. 2, H319 10 $\leq$ %C $< 20$ ;		126-92-1	204-812-8	01-2119971 586-23-XXX X

## SECTION 4. First aid measures

### 4.1. Description of first aid measures

In case of skin contact: immediately take off contaminated clothing, wash immediately with plenty of water and soap and in case of redness or burns, consult a doctor immediately and / or go to the emergency room. In case of contact with the eyes: rinse with water for an appropriate time and with the eyelids open, then immediately consult an ophthalmologist. Protect the uninjured eye. In case of ingestion: DO NOT induce vomiting. In case of inhalation: take the injured person to fresh air and keep him warm and at rest.

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

Prolonged inhalation can cause a burning sensation, cough, headache, difficulty breathing, nausea and throat pain. Contact with skin produces chemical burns in the skin, with local discomfort or pain, severe redness and swelling, tissue destruction, cracking and ulceration. Contact with eyes can cause redness, pain, severe deep burns and loss of vision. Ingestion can cause severe burns to the lips, mouth, throat and esophagus, with stomach upset and abdominal pain

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

If you feel unwell, see a doctor and if possible show this SDS  
Symptomatic treatment

## SECTION 5. Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media: must be evaluated based on the surrounding environment. In the event of a large fire, all

extinguishing agents are permitted. Extinguishing media which must not be used for safety reasons: none in particular.

### 5.2. Special hazards arising from the substance or mixture

Do not inhale the gases produced by the explosion and combustion.

### 5.3. Advice for firefighters

Use suitable respiratory equipment.

## SECTION 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:

Leave the area surrounding the spill or release. Do not smoke  
Wear mask, gloves and protective clothing.

6.1.2 For emergency responders:

Eliminate all unguarded flames and possible sources of ignition. No smoking.  
Provide a sufficient ventilation.  
Evacuate the danger area and, in case, consult an expert.

### 6.2. Environmental precautions

Contain spills with earth or sand.

If the product has entered a watercourse, sewers or has contaminated soil or vegetation, notify the authorities.  
Dispose of the waste material in compliance with the regulations

### 6.3. Methods and material for containment and cleaning up

6.3.1 Containment:

Rapidly recover the product, wear a mask and protective clothing (for specifications refer to section 8.2. SDS)  
Recover the product for reuse, if possible, or for removal. Possibly absorb it with inert material or suck it.  
Prevent it from entering the sewer system.

6.3.2 Cleaning up:

After wiping up, wash with water the area and materials involved

6.3.3 Other information:

None in particular.

### 6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

**SECTION 7. Handling and storage****7.1. Precautions for safe handling**

Avoid contact and inhalation of vapors

Wear protective gloves/clothing and eye/face protection.

Handle the product after consulting all other sections of this safety data sheet.

At work do not eat or drink.

See also paragraph 8 below.

**7.2. Conditions for safe storage, including any incompatibilities**

Keep in original container closed tightly. Do not store in open or unlabelled containers.

Keep containers upright and safe by avoiding the possibility of falls or collisions.

Store in a cool and dry place, away from heat sources and direct exposure to sunlight.

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

Industrial Manufacturing:

Handle with care. Store in a well-ventilated place away from heat sources, in the original, well-closed containers

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

Handle with care. Store in a well-ventilated place away from heat sources, in the original, well-closed containers

See the annex exposure scenario.

**SECTION 8. Exposure controls/personal protection****8.1. Control parameters**

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Related to contained substances:

2-Butoxyethanol:

Limit Value – Eight hours

(ppm)/(mg/m<sup>3</sup>)

Australia: 20/96.9

Austria: 20/98

Belgium: 20/98

Canada – Ontario: 20/x

Canada – Québec: 20/97

Denmark: 20/98

European Union: 20/98

Finland: 20/98

France: 10/49

Germany(AGS): 10/49

Germany (DFG): 10(1)/49

Hungary: x/98

Ireland: 20/98

Italy: 20/98

Japan: 25

Latvia: 20/98

New Zealand: 25/121

Poland: x/98

Singapore: 25/121

South Korea: 20/97

Spain: 20/98

Sweden: 10/50

Switzerland: 10/49

The Netherlands: x/100

Turkey: 20/98

USA – NIOSH: 5/24  
USA-OSHA: 50/240  
United Kingdom: 25/123

Limit Value – Short term  
(ppm)/(mg/m<sup>3</sup>)  
Australia: 50/242  
Austria: 40/200  
Belgium: 50/246  
Canada – Ontario: x/x  
Canada – Québec: x/x  
Denmark: 40/196  
European Union: 50/246  
Finland: 50(1)/250(1)  
France: 50/246  
Germany(AGS): 40(1)/196(1)  
Germany (DFG): 20(2)/98  
Hungary: x/246  
Ireland: 50(1)/246(1)  
Italy: 50/246  
Japan: x/x  
Latvia: 50(1)/246(1)  
New Zealand: 25/121  
Poland: x/200  
Singapore: x/x  
South Korea: x/x  
Spain: 50/245  
Sweden: 20(1)/100(1)  
Switzerland: 20/98  
The Netherlands: x/246  
Turkey: 50(1)/246(1)  
USA – NIOSH: x/x  
USA-OSHA: x/x  
United Kingdom: 50/246

#### Remarks

European Union Bold-type: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] ~ (for references see bibliography)  
Finland (1) 15 minutes average value  
France Bold type: Restrictive statutory limit values  
Germany (AGS) (1) 15 minutes average value  
Germany (DFG) (1) MAK value for the sum of the concentration of 2 – butoxyethanol and 2-butoxyethylacetate (2) 15 minutes average value  
Ireland (1) 15 minutes reference period  
Italy skin  
Latvia (1) 15 minutes average value  
Spain skin  
Sweden (1) Short-term value, 15 minutes average value  
Turkey (1) 15 minutes average value

Sodium hydroxide:  
Limit value – Eight hours  
(ppm)/(mg/m<sup>3</sup>)  
Austria: x/2 inhalable aerosol  
Belgium: x/2 (1)  
Denmark: x/2  
France: x/2  
Hungary: x/2

Japan (JSOH): x/2(1)  
Latvia: x/0,5  
Poland: x/0,5  
Romania: x/1  
Spain: x/2  
Sweden: x/1 (1)  
Switzerland: x/2 inhalable aerosol (MAK)  
USA – OSHA: x/2

## Limit Value – Short Term

(ppm)/(mg/m<sup>3</sup>)

Australia: x/2(1)  
Austria: x/4 inhalable aerosol  
Canada - Ontario: x/2(1)  
Canada – Québec: x/2(1)  
Denmark: x/2  
Finland: x/2(1)  
Hungary: x/2  
Ireland: x/2(1)  
New Zealand: x/2(1)  
People's Republic of China: x/2(1)  
Poland: x/1  
Romania: x/3(1)  
Singapore: x/2  
South Korea: x/2(1)  
Sweden: x/2(1)(2)  
Switzerland: x/2 inhalable aerosol (MAK)  
USA – NIOSH: x/2(1)  
United Kingdom: x/2

## Remarks:

Australia: (1) Ceiling limit value  
Canada – Ontario: (1) Ceiling limit value  
Canada – Québec: (1) Ceiling limit value  
Finland: (1) Ceiling limit value  
Ireland: (1) 15 minutes reference period  
Japan: (1) Occupational exposure limit ceiling: Reference value to the maximal exposure concentration of the substance during a working day  
New Zealand: (1) Ceiling limit value  
People's Republic of China: (1) Ceiling limit value  
South Korea: (1) Ceiling limit value  
Romania: (1) 15 minutes average value  
Sweden: (1) Inhalable dust (2) Ceiling limit value  
USA – NIOSH: (1) Ceiling limit value (15 min)  
Argentina: CMP-C: 2 mg/m<sup>3</sup>  
Czech Republic: PEL 1 mg/m<sup>3</sup>/ NPK-P 2 mg/m<sup>3</sup>  
Italy: OEL: ACGIH -STEL: C 2.0 mg/m<sup>3</sup>; Tipo OEL: ACGIH - STEL: C2 mg/m<sup>3</sup> - Note: URT, eye, and skin irrit  
Estonia: short-term exposure limit (maximum chemical substance average allowable concentration in inhaled air - 15 minutes) 2 mg/m<sup>3</sup>(Ceiling limit" means a maximum permissible continuous concentration of 15 minutes in the air for rapidly acting substances)  
Norway: ceiling value (a moment value that indicates the maximum concentration of a chemical in the breathing zone that should not be exceeded) 2 mg/m<sup>3</sup>  
Lithuania: NRD 2 mg/m<sup>3</sup>  
Slovakia: NPEL 2 mg/m<sup>3</sup>  
South Africa: Short Term OEL-CL 2 mg/m<sup>3</sup>

- Substance: 2-Butoxyethanol

DNEL

Systemic effects Long term Workers inhalation = 98 (mg/m<sup>3</sup>)

Systemic effects Long term Workers dermal = 125 (mg/kg bw/day)  
Systemic effects Long term Consumers inhalation = 59 (mg/m<sup>3</sup>)  
Systemic effects Long term Consumers dermal = 75 (mg/kg bw/day)  
Systemic effects Long term Consumers oral = 6,3 (mg/kg bw/day)  
Systemic effects Short term Workers inhalation = 1091 (mg/m<sup>3</sup>)  
Systemic effects Short term Workers dermal = 89 (mg/kg bw/day)  
Systemic effects Short term Consumers inhalation = 426 (mg/m<sup>3</sup>)  
Systemic effects Short term Consumers dermal = 89 (mg/kg bw/day)  
Systemic effects Short term Consumers oral = 26,7 (mg/kg bw/day)  
Local effects Long term Workers dermal = 75 (mg/kg bw/day)  
Local effects Short term Workers inhalation = 246 (mg/m<sup>3</sup>)  
Local effects Short term Consumers inhalation = 147 (mg/m<sup>3</sup>)  
PNEC  
Sweet water = 8,8 (mg/l)  
sediment Sweet water = 34,6 (mg/kg/sediment)  
Sea water = 0,88 (mg/l)  
sediment Sea water = 3,46 (mg/kg/sediment)  
intermittent emissions = 9,1 (mg/l)  
STP = 463 (mg/l)  
ground = 2,33 (mg/kg ground)

- Substance: Sodium hydroxide

DNEL

Systemic effects Short term Workers inhalation = 1 (mg/m<sup>3</sup>)  
Systemic effects Short term Consumers inhalation = 1 (mg/m<sup>3</sup>)  
Local effects Short term Workers inhalation = 1 (mg/m<sup>3</sup>)  
Local effects Short term Consumers inhalation = 1 (mg/m<sup>3</sup>)

- Substance:

Sodium etasulfate

DNEL

Systemic effects Long term Workers inhalation = 285 (mg/m<sup>3</sup>)  
Systemic effects Long term Workers dermal = 4060 (mg/kg bw/day)  
Systemic effects Long term Consumers inhalation = 85 (mg/m<sup>3</sup>)  
Systemic effects Long term Consumers dermal = 2440 (mg/kg bw/day)  
Systemic effects Long term Consumers oral = 24 (mg/kg bw/day)

PNEC

Sweet water = 0,1357 (mg/l)  
sediment Sweet water = 1,5 (mg/kg/sediment)  
Sea water = 0,15 (mg/l)  
sediment Sea water = 0,15 (mg/kg/sediment)  
intermittent emissions = 4,83 (mg/l)  
STP = 1,35 (mg/l)  
ground = 0,22 (mg/kg ground)

## 8.2. Exposure controls

Appropriate engineering controls:

Industrial Manufacturing:

No specific monitoring foreseen (act according to good practice and specific rules for the type of risk associated)

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

No specific monitoring foreseen (act according to good practice and specific rules for the type of risk associated)



**8.2.2 Individual protection measures:**
**(a) Eye / face protection**

When handling the pure product, in case of possible splashes, use safety glasses (EN 166).

**(b) Skin protection**
**(i) Hand protection**

When handling the pure product or in case of prolonged contact use protective gloves resistant to the products chemicals (EN 374-1 / EN374-2 / EN374-3)

**(ii) Other**

When handling the pure product, wear full protective clothing (generic workwear / antacid, safety shoes S3-EN ISO 20345) or other protective equipment, according to the instructions of the employer

**(c) Respiratory protection**

Not necessary for normal use. During manual operations in case of insufficient ventilation and / or from provisions by the employer and / or by evaluations of environmental hygienic investigations, use mask with filters for Universal type ABECK (UNI EN 405)

**(d) Thermal hazards**

No hazard to report

**Environmental exposure controls:**

Use according to good working practices and avoid to disperse the product into the environment.

**SECTION 9. Physical and chemical properties**
**9.1. Information on basic physical and chemical properties**

Physical and chemical properties	Value	Determination method
Appearance	liquid	
Colour	light red	
Odour	not determined as it is considered not relevant for the characterization of the product	
Odour threshold	not determined as it is considered not relevant for the characterization of the product	
pH	13.0 ± 0.5 (20 ° C)	
Melting point/freezing point	not determined as it is considered not relevant for the characterization of the product	
Initial boiling point and boiling range	not determined as it is considered not relevant for the characterization of the product	
Flash point	not determined as it is considered not relevant for the characterization of the product	ASTM D92
Evaporation rate	not determined as it is considered not relevant for the characterization of the product	
Flammability (solid, gas)	not determined as it is considered not relevant for the characterization of the product	
Upper/lower flammability or explosive limits	not determined as it is considered not relevant for the characterization of the product	
Vapour pressure	not determined as it is considered not relevant for the characterization of the product	

Physical and chemical properties	Value	Determination method
Vapour density	not determined as it is considered not relevant for the characterization of the product	
Relative density	1.06 ± 0.05 (20 ° C)	
Solubility	in water	
Water solubility	miscible in all proportions	
Partition coefficient: n-octanol/water	not determined as it is considered not relevant for the characterization of the product	
Auto-ignition temperature	not determined as it is considered not relevant for the characterization of the product	
Decomposition temperature	not determined as it is considered not relevant for the characterization of the product	
Viscosity	not determined as it is considered not relevant for the characterization of the product	
Explosive properties	not determined as it is considered not relevant for the characterization of the product	
Oxidising properties	not determined as it is considered not relevant for the characterization of the product	

## 9.2. Other information

No data available.

## SECTION 10. Stability and reactivity

### 10.1. Reactivity

Alkaline product  
May be corrosive to metals.

### 10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

### 10.3. Possibility of hazardous reactions

Possible dangerous reaction with acids.

### 10.4. Conditions to avoid

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Related to contained substances:  
Sodium hydroxide:  
Absorbs carbon dioxide when exposed to air.

### 10.5. Incompatible materials

Acids

### 10.6. Hazardous decomposition products

Thermally stable product. In the event of a fire, dangerous oxides may be formed

## SECTION 11. Toxicological information

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

ATE(mix) oral = 24.000,0 mg/kg

ATE(mix) inhal = 220,0 mg/l/4 h

(a) acute toxicity: 2-Butoxyethanol: Ingestion - LD50 rat (mg / kg / 24h bw): 1200

Skin contact - LC50 guinea pig (mg / kg / 24h bw): > 2000 OECD 402

CL50 guinea pig (inhalation): > 400 ppm 7 h

Inhalation - LD50 rat (mg / l / 4h): 11 (vapors)

Sodium hydroxide: Ingestion - LD50 rat (mg / kg / 24h bw): nd

Skin contact - LC50 rabbit (mg / kg / 24h bw): 1350

Inhalation - LD50 rat (mg / l / 4h): nd

Sodium etasulfate: Ingestion - LD50 rat (mg / kg / 24h bw): experimental / calculated data - 2.840 mg / kg (similar to OECD Guideline 401)

Skin contact - LC50 rat / rabbit (mg / kg / 24h bw): > 2.000 mg / kg (OECD - guideline 402). The indications are derived from substances / products of similar composition or structure. Inhalation - LD50 rat (mg / l / 4h): nd

(b) skin corrosion/irritation: Corrosive product: causes severe skin burns and eye damage.

2-Butoxyethanol: Non-corrosive

Sodium hydroxide: Corrosive

Sodium etasulfate: Non-corrosive

2-Butoxyethanol: Causes serious eye irritation

Sodium hydroxide: Irritating

Sodium etasulfate: Irritating

(c) serious eye damage/irritation: Corrosive product: causes severe skin burns and eye damage. - If brought into contact with eyes, the product causes serious damages to eyes, such as an opaque cornea or injury to iris.

2-Butoxyethanol: Non-corrosive

Sodium hydroxide: Corrosive

Sodium etasulfate: Corrosive

2-Butoxyethanol: Causes skin irritation.

Sodium hydroxide: Irritating

Sodium etasulfate: Irritating

(d) respiratory or skin sensitisation: 2-Butoxyethanol: Sensitization: (Guinea Pig): negative

Sodium hydroxide: Not sensitizing

Sodium etasulfate: Non-sensitizing

(e) germ cell mutagenicity: 2-Butoxyethanol: Non-mutagenic

Sodium hydroxide: NaOH did not induce mutagenicity in in vitro and in vivo studies (EU RAR, 2007; section 4.1.2.7, page 73).

Sodium etasulfate: Non-mutagenic

(f) carcinogenicity: 2-Butoxyethanol: Non-carcinogenic

Sodium hydroxide: Systemic carcinogenicity is not expected to occur as NaOH is not expected to be systemically available in the body under normal conditions of handling and use. Finally, adequate studies are not available to assess the risk on local carcinogenic effects.

Sodium etasulfate: Non-carcinogenic

(g) eproductivetoxicity: 2-Butoxyethanol: Non-toxic for reproduction Route of exposure: Oral Species: Rabbit Effective dose: 720 mg / kg bw / day

Sodium hydroxide: NaOH is not expected to be systemically available in the body under normal conditions of handling and use and for this reason it can be said that the substance will neither reach the fetus nor reach the male and female reproductive organs (EU RAR Sodium Hydroxide (2007), section 4.1.2.8, page 73). It can be concluded that a specific study is not required to determine reproductive toxicity.

Sodium etasulfate: Non-toxic for reproduction

(h) specific target organ toxicity (STOT) single exposure: 2-Butoxyethanol: Not available

Sodium hydroxide: The substance can be absorbed into the body by inhalation of its aerosol, by ingestion and by contact with the skin causing corrosion

Sodium etasulfate: Not available

(i) specific target organ toxicity (STOT) repeated exposure 2-Butoxyethanol: Subacute oral toxicity

Route of exposure: Oral route

Species: Rat (male) Effective dose: <69 mg / kg dw Exposure time: 90 days Method: OECD 408

Species: Rat (female) Effective dose: <82 mg / kg dw Exposure time: 90 days Method: OECD 408

Subacute skin toxicity

Route of exposure: Dermal

Species: Rabbit Effective dose: > 150 mg / kg bw / day Exposure time: 90 days Method: OECD 411

Subacute inhalation toxicity

Route of exposure: Inhalation

Species: Rat Effective dose: 152 mg / m<sup>3</sup>

Sodium hydroxide: The introductory sections of Annexes VII-X indicate a specific adaptation to standard information requirements as in vivo testing should be avoided with corrosive substances at concentration / dose levels causing corrosivity. However, NaOH is not expected to be systemically available in the body under normal conditions of handling and use and therefore no systemic effects of NaOH are expected after repeated exposure (EU RAR sodium hydroxide (2007); section 4.1.3.1.4, page 76 ).

Sodium etasulfate: Evaluation of toxicity following repeated administration: the product has not been tested. The indications are derived from substances / products of similar composition or structure. In tests on animals a certain adaptability has been observed following repeated exposure. The absorption of the substance by mouth in high concentrations can damage the organs.

(j) aspiration hazard: 2-Butoxyethanol: Not available

Sodium hydroxide: Not available

Sodium etasulfate: Not available

## 11.2. Information on other hazards

No data available.

## SECTION 12. Ecological information

### 12.1. Toxicity

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Related to contained substances:

2-Butoxyethanol:

Acute toxicity - fish (*Oncorhynchus mykiss*) LC50 (mg / l / 96h): 1474

Acute toxicity - crustaceans (*Daphnia magna*) EC50 (mg / l / 48h): 1550

Acute algae toxicity (*Pseudokirchneriella subcapitata*) ErC50 (mg / l / 72 -96h): 911

Chronic toxicity - fish (*Brachydanio rerio*) NOEC mg / l: > 100

Chronic toxicity - crustaceans NOEC mg / l: 100

C(E)L50 (mg/l) = 1474

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**Sodium hydroxide:**

Acute toxicity - fish LC50 (mg / l / 96h): 45  
Acute toxicity - crustaceans EC50 (mg / l / 48h): 40  
Acute toxicity to algae ErC50 (mg / l / 72-96h): n.d  
Chronic toxicity - fish NOEC (mg / l): n.d  
Chronic toxicity - crustaceans NOEC (mg / l): n.d  
Chronic toxicity to algae NOEC (mg / l): n.d

Available data indicate that NaOH concentrations of approximately 20 to 40 mg / L may be acutely toxic to fish and invertebrates (single species test). There is a lack of data on the increase in pH due to the addition of these quantities of NaOH in the test waters used. In waters with relatively low buffering capacity, NaOH concentrations of 20-40 mg / L may lead to an increase in pH with one or more pH units (EU RAR, 2007; section 3.2.1.1.3, page 30).

The OECD SIDS (2002) assigned a low reliability code ("invalid" or "not assignable") to all available tests, since in general the tests were not conducted according to current guidelines (EU RAR, 2007 ; section 3.2. 1.1.4, page 30). Furthermore, in many test reports there were no data on pH, buffer capacity and / or composition of the test medium, although this is essential information for NaOH toxicity testing. This is the most important reason why most of the tests were considered "invalid". Despite this lack of valid data, it is not necessary to perform further aquatic toxicity tests with NaOH, as all available tests have resulted in a rather small range of toxicity values (acute toxicity test: 20 to 450 mg / L; test chronic toxicity: > or = 25 mg / L) and there are sufficient data on the pH ranges tolerated by the main taxonomic groups.

Furthermore, a generic PNEC cannot be derived from the single species toxicity data for NaOH, as the pH of natural waters and the buffering capacity of natural waters show considerable differences and aquatic organisms / ecosystems are adapted to these specific natural conditions, with resulting in different pH optima and tolerated pH ranges (EU RAR, 2007; section 3.2.1.1.4, page 30). According to the OECD SIDS (2002), a lot of information is available on the relationship between pH and ecosystem structure, and natural changes in the pH of aquatic ecosystems have also been quantified and widely reported in ecological publications and manuals.

C(E)L50 (mg/l) = 45

**Sodium etasulfate:**

Acute toxicity-fish LC50 (mg/l/83d): > 100  
Acute toxicity-crustacea EC50 (mg/l/48 h): > 100  
Acute algae toxicity ErC50 (mg/l/72-69): > 100  
Chronic toxicity-fish NOEC (mg/l): > 1  
Chronic toxicity-crustaceans NOEC (mg/l): > 1

Use according to good working practices and avoid to disperse the product into the environment.

**12.2. Persistence and degradability**

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**Related to contained substances:****2-Butoxyethanol:**

Easily biodegradable 90% CO<sub>2</sub> formation of the theoretical value (28 d) (OECD 301B; ISO 9439; 92/69 / EEC, C.4-C)  
(aerobic, activated sludge)

**Sodium hydroxide:**

according to REACH regulation, it is not necessary to conduct the study if the substance is inorganic (Annex VII, adaptation column 2).

**Sodium etasulfate:**

Readily biodegradable

**12.3. Bioaccumulative potential**

=====

Related to contained substances:

2-Butoxyethanol:

Less bioaccumulable

Sodium hydroxide:

According to REACH, it is not necessary to conduct the study if the substance has a low bioaccumulation potential (Annex IX, adaptation column 2). Considering its high water solubility, NaOH should not bioconcentrate in organisms. Log Pow is not applicable for an inorganic compound that dissociates (EU RAR 2007, section 3.1.1 page 19 and section 3.1.3.4, page 26). Furthermore, sodium is an element present in nature prevalent in the environment and to which organisms are regularly exposed, for which they have a certain ability to regulate the concentration of the organism.

Sodium etasulfate:

Not bioaccumulative

**12.4. Mobility in soil**

=====

Related to contained substances:

2-Butoxyethanol:

High mobility potential

Sodium hydroxide:

According to the REACH regulation, it is not necessary to conduct an adsorption / desorption study if, based on the physicochemical properties, the substance can be expected to have a low adsorption potential (Annex VIII, adaptation column 2).

Considering its high water solubility, NaOH should not bioconcentrate in organisms. The high water solubility and low vapor pressure indicate that NaOH will be found primarily in the aquatic environment.

The 73% aqueous NaOH solution at room temperature is a highly viscous gelatinous material and without additional dilution (precipitation), it is not expected to infiltrate the soil to any significant extent. The 50% aqueous NaOH solution is liquid and is expected to infiltrate the soil to a measurable extent. As a dilution of NaOH increases, increases its speed of movement through the ground. During movement through the ground, some ion exchange will occur.

Also, part of the hydroxide can remain in the aqueous phase and will move down through the soil in the direction of groundwater flow (EU RAR 2007, section 3.1.3, page 24).

Sodium etasulfate:

Possible absorption into the soil solid phase

**12.5. Results of PBT and vPvB assessment**

No PBT/vPvB ingredient is present

**12.6. Endocrine disrupting properties**

No data available.

**12.7. Other adverse effects**

No adverse effects

Regulation (EC) No 2006/907 - 2004/648

The (l) surfactant (s) content (s) in this preparation complies (comply) with (i) the biodegradability criteria as laid down in Regulation CE/648/2004 on detergents. All data are held at the disposal of the competent authorities of Member States and will be provided, at their direct request or at the request of a detergent manufacturer, to those authorities.

## SECTION 13. Disposal considerations

### 13.1. Waste treatment methods

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies.

Recover if possible. Operate according to local or national regulations

## SECTION 14. Transport information

### 14.1. UN number or ID number

ADR/RID/IMDG/ICAO-IATA: 3266

If subject to the following characteristics is ADR exempt:

Combination packagings: per inner packaging 1 L per package 30 Kg

Inner packaging placed in shrink-wrapped or stretch-wrapped trays: per inner packaging 1 L per package 20 Kg



### 14.2. UN proper shipping name

ADR/RID/IMDG: LIQUIDO INORGANICO CORROSIVO, BASICO, N.A.S. (Sodio idrossido in miscela)

ADR/RID/IMDG: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide in mixture)

ICAO-IATA: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide in mixture)

### 14.3. Transport hazard class(es)

ADR/RID/IMDG/ICAO-IATA: Class : 8

ADR/RID/IMDG/ICAO-IATA: Label : 8

ADR: Tunnel restriction code : E

ADR/RID/IMDG/ICAO-IATA: Limited quantities : 1 L

IMDG - EmS : F-A, S-B

### 14.4. Packing group

ADR/RID/IMDG/ICAO-IATA: II

### 14.5. Environmental hazards

ADR/RID/ICAO-IATA: Product is not environmentally hazardous

IMDG: Marine polluting agent : No

### 14.6. Special precautions for user

The transport must be carried out by authorized vehicles for the transport of dangerous goods in accordance with the requirements of the applicable Edition of the agreement A.D.R. and national provisions. The transport must be carried out in the original packaging and in packages that are made from materials resistant to content and not likely to generate with this dangerous reactions. The process of loading and unloading of dangerous goods have received adequate training on the risks presented by prepared and on possible procedures to be taken in the event of emergency situations

**14.7. Maritime transport in bulk according to IMO instruments**

Transport in bulk is not foreseen

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

Restrictions relating to the product or contained substances (All. XVII Reg. EC 1907/2006): not applicable  
Substances in Candidate List (art. 59 Reg. EC 1907/2006): the product does not contain SVHC in a proportion  $\geq 0.1\%$ .  
Substances subject to authorisation (Ann. XIV Reg. CEC 1907/2006): the product does not contain SVHC in a proportion  $\geq 0.1\%$ .

Reg. EC 648/04: see 2.2

Reg. (EU) n. 1169/2011: see 2.2

Reg (UE) 528/2012: see to 2.2

REGULATION (EU) No 1357/2014 - waste: HP8 - Corrosive

**15.2. Chemical safety assessment**

No chemical safety assessment was carried out by the supplier

**SECTION 16. Other information****16.1. Other information**

Points modified compared to previous release: 2.1. Classification of the substance or mixture 3.2 information on ingredients 4.3 Indication of any immediate medical attention and special treatment needed 7.3. Specific end use(s), 8.1. Control parameters, 8.2. Exposure controls 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008, 12.1. Toxicity, 12.6. Endocrine disrupting properties, 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Description of hazard statements set out in paragraph 3

H302 = Harmful if swallowed.

H315 = Causes skin irritation.

H319 = Causes serious eye irritation.

H332 = Harmful if inhaled.

H290 = May be corrosive to metals.

H314 = Causes severe skin burns and eye damage.

H318 = Causes serious eye damage.

Classification based on data of all mixture components

Main normative references:

Reg. (CE) n. 1907 del 18/12/06 REACH (Registration, Evaluation and Authorisation of CHemicals) et seq.

Reg. (CE) 1272/2008 CLP (Classification Labelling and Packaging) et seq.

Regulation (EC) n. 648 of 31/03/04 (on detergents) et seq.

Regulation (UE) n. 1169/2011 (on the provision of food information to consumers)

Directive 2012/18/EU (on the control of major-accident hazards involving dangerous substances) et seq.

Regulation (UE) 528/2012 (Biocides) et seq.

Procedure used to classify under CLP mixture (Reg. EC 1272/2008):



Physical hazards: On the basis of experimental data

H314 Skin. Corr. 1b: On the basis of experimental data / Calculation Method

Training required: This document must be submitted to the employer to determine the possible need for appropriate training for workers to ensure protection of human health and the environment.

n.a.: not applicable

n.d.: not available

ADR: Accord européen relative au transport International des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

ATE: Acute Toxicity Estimati

BFC: BioconCentration Factor

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstract Service number

CAP: Centre AntiPoison

CE/EC number EINECS (European Inventory of existing Commercial Substances) e ELINCS (European List of notified Chemical Substances)

CL50/LC50: Lethal Concentration 50

DL50/LD50: Lethal Dose 50

COD: Chemical Oxygen Demand

DNEL: Derived No Effect Level

EC50: half maximal Effective Concentration

ERC: Enviroment Release Classes

EU/UE: European Union

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

IMDG: International Maritime Dangerous Goods code

Kow: Octanol water partition coefficient

NOEC: No Observed Effect Concentration

OEL: Occupational Exposure Limit

PBT: Persistent Bioaccumulative and Toxic

PC: Product Categories

PNEC: Predicted No Effect Concentration

PROC: Process Categories

RID: Règlement concernant le transport International ferroviaire des marchandises dangereuses (Regulations concerning International rail transport of dangerous goods)

STOT: Target Organ Systemic Toxicity

STOT (RE): Repeated Exposure

STOT (SE): Single Exposure

STP: Sewage Treatment Plants

SU: Sector of Use

SVCH: Substance of Very High Concern

TLV: Threshold Limit Value

vPvB: Very Persistent Very Bioaccumulative

#### References and Sources:

- ECHA Registered Substances:
- <https://echa.europa.eu/web/guest/information-on-chemicals/registered-substances>
- SDS supplier
- GESTIS DNEL Database: <http://www.dguv.de/ifa/gestis/gestis-dnel-datenbank/index-2.jsp>
- GESTIS International Limit Value: <http://limitvalue.ifa.dguv.de>

This msds was made in good faith by AEB technical Office on the basis of the information available at the date of the last revision. The person in charge must regularly inform the employees about the specific risks they encounter when using this substance/product. The information contained here relate only to the substance/the preparation indicated and may not apply if the product is used improperly or in combination with others. Nothing contained herein shall be

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construed as a guarantee, either express or implied. It is the responsibility of the user to ensure the opportunities and completeness of the information contained herein for their own particular use.

\*\*\* this tab annuls and replaces any previous edition. (IIXX)

Changes to the previous edition: issued in according with Reg. (EU) 878/20

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**SUMI****Safe Use of Mixtures Information****AISE\_SUMI\_IS\_4\_2***Version 1.1, August 2018****Industrial uses; Automated task; Semi-automated task; Dedicated equipment***

*This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.*


**General description of the process covered**

The SUMI applies to industrial uses where products are used in closed process where opportunity for exposure arises. This Safe Use Information is based on the **AISE\_SWED\_IS\_4\_2**.

**Operational Conditions**

<b>Maximum duration</b>	480 minutes per day.
<b>Range of application / Process conditions</b>	Indoor Use.
	Process carried out at room temperature.
	In case of dilution, tap water at a maximum temperature of 45°C is used.
<b>Air exchange rate</b>	Provide a basic standard of general ventilation (1 to 3 air changes per hour). No LEV required.

**Risk Management Measures**

<b>Measures related to personal protective equipment (PPE), hygiene and health evaluation</b>	Wear suitable gloves. See section 8 of the SDS of this product for specifications. 
	Training of workers in relation to proper use and maintenance of PPEs must be ensured.
<b>Environmental measures</b>	Prevent that undiluted product reaches surface waters.
	<b>If appropriate AISE SPERC 8a.1.a.v2 may apply:</b> wide dispersive use resulting in release to municipal sewage treatment plant.

### Additional good practice advice

<b>Don't eat or drink.</b> <b>Don't smoke.</b> <b>Don't use in proximity of open flame.</b>	
<b>Wash hands after use.</b> <b>Avoid contact with damaged skin.</b> <b>Do not mix with other products.</b>	
<b>Spillage instructions</b>	Dilute with fresh water and mop up.
<b>Hygiene practices</b>	Follow the product instructions as specified on the label or in the product information sheet and use good occupational hygiene practices as specified in Section 7 of the product SDS.

### Additional information depending on product composition

The label and (when required) the Safety Data Sheet contain additional, product specific information crucial for working safely with mixtures. Please refer to the product label and SDS for information including, but not limited to: product hazard classification, potentially allergenic fragrances, notable ingredients and threshold limit values (when available).

### Disclaimer

*This is a document for communicating generic conditions of safe use of a product. It is the responsibility of the formulator to link this SUMI to the SDS of a specific product that he is selling.*

*If a SUMI (or associated SWED) code is mentioned in the SDS of a product, the formulator of that product declares that all substances in the mixture are present in such concentration, that the use of the product within the conditions of the SUMI is safe. When available, this safe use is ensured by evaluating the results of the chemical safety assessments as performed by the raw material suppliers. When no chemical safety assessment has been carried out by the supplier for an ingredient that contributes to the classification of the mixture, the formulator has performed a safety assessment himself.*

*Following Occupational Health legislation, the employer of workers that use products that are assessed as safe following SUMI conditions remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, SUMI Sheets should always be considered in combination with the SDS and the label of the product.*

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**SUMI****Safe Use of Mixtures Information****AISE\_SUMI\_IS\_8b\_1***Version 1.1, August 2018****Transfer and dilution of concentrated product by using dedicated dosing system***

*This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.*


**General description of the process covered**

This SUMI applies to industrial uses where products are transferred to or diluted in a dedicated dosing system. This Safe Use Information is based on the **AISE\_SWED\_IS\_8b\_1\_L** and **AISE\_SWED\_IS\_8b\_1\_S**

**Operational Conditions**

<b>Maximum duration</b>	60 minutes per day.
<b>Range of application / Process conditions</b>	Indoor Use.
	Process carried out at room temperature.
	In case of dilution, tap water at a maximum temperature of 45°C is used.
<b>Air exchange rate</b>	Provide a basic standard of general ventilation (1 to 3 air changes per hour). No LEV required.

**Risk Management Measures**

<b>Measures related to personal protective equipment (PPE), hygiene and health evaluation</b>	Wear suitable gloves. See section 8 of the SDS of this product for specifications. 
	Training of workers in relation to proper use and maintenance of PPEs must be ensured.
<b>Environmental measures</b>	Prevent that undiluted product reaches surface waters.
	<b>If appropriate AISE SPERC 8a.1.a.v2 may apply:</b> wide dispersive use resulting in release to municipal sewage treatment plant.

### Additional good practice advice

<b>Don't eat or drink.</b> <b>Don't smoke.</b> <b>Don't use in proximity of open flame.</b>	
<b>Wash hands after use.</b> <b>Avoid contact with damaged skin.</b> <b>Do not mix with other products.</b>	
<b>Spillage instructions</b>	Dilute with fresh water and mop up.
<b>Hygiene practices</b>	Follow the product instructions as specified on the label or in the product information sheet and use good occupational hygiene practices as specified in Section 7 of the product SDS.

### Additional information depending on product composition

The label and (when required) the Safety Data Sheet contain additional, product specific information crucial for working safely with mixtures. Please refer to the product label and SDS for information including, but not limited to: product hazard classification, potentially allergenic fragrances, notable ingredients and threshold limit values (when available).

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**SUMI****Safe Use of Mixtures Information****AISE\_SUMI\_PW\_4\_1***Version 1.1, August 2018****Professional uses; Semi-closed system***

*This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.*

**General description of the process covered**

The SUMI applies to professional uses where products are used in closed process where opportunity for exposure arises. This Safe Use Information is based on the **AISE\_SWED\_PW\_4\_1**.

**Operational Conditions**

<b>Maximum duration</b>	480 minutes per day.
<b>Range of application / Process conditions</b>	Indoor Use.
	Process carried out at room temperature.
	In case of dilution, tap water at a maximum temperature of 45°C is used.
<b>Air exchange rate</b>	Provide a basic standard of general ventilation (1 to 3 air changes per hour). No LEV required.

**Risk Management Measures**

<b>Measures related to personal protective equipment (PPE), hygiene and health evaluation</b>	See section 8 of the SDS of this product for specifications.
	Training of workers in relation to proper use and maintenance of PPEs must be ensured.
<b>Environmental measures</b>	Prevent that undiluted product reaches surface waters.
	<b>If appropriate AISE SPERC 8a.1.a.v2 may apply:</b> wide dispersive use resulting in release to municipal sewage treatment plant.

### Additional good practice advice

<b>Don't eat or drink.</b> <b>Don't smoke.</b> <b>Don't use in proximity of open flame.</b>	
<b>Wash hands after use.</b> <b>Avoid contact with damaged skin.</b> <b>Do not mix with other products.</b>	
<b>Spillage instructions</b>	Dilute with fresh water and mop up.
<b>Hygiene practices</b>	Follow the product instructions as specified on the label or in the product information sheet and use good occupational hygiene practices as specified in Section 7 of the product SDS.

### Additional information depending on product composition

The label and (when required) the Safety Data Sheet contain additional, product specific information crucial for working safely with mixtures. Please refer to the product label and SDS for information including, but not limited to: product hazard classification, potentially allergenic fragrances, notable ingredients and threshold limit values (when available).

### Disclaimer

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**SUMI****Safe Use of Mixtures Information****AISE\_SUMI\_PW\_8a\_1\_G***Version 1.1, August 2018****Transfer of product to a container (bottle/bucket/machine)***

*This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.*



**General description of the process covered**

This SUMI applies to professional uses where the product is transferred to or diluted in a container, such as a dispenser, bottle or bucket. Safe Use Information is based on the **AISE\_SWED\_PW\_8a\_1\_L** and **AISE\_SWED\_PW\_8a\_1\_S**.

**Operational Conditions**

<b>Maximum duration</b>	60 minutes per day.
<b>Range of application / Process conditions</b>	Indoor Use.
	Process carried out at room temperature.
	In case of dilution, tap water at a maximum temperature of 45°C is used.
<b>Air exchange rate</b>	Provide a basic standard of general ventilation (1 to 3 air changes per hour). No LEV required.

**Risk Management Measures**

<b>Measures related to personal protective equipment (PPE), hygiene and health evaluation</b>	Wear suitable gloves and eye protection. See section 8 of the SDS of this product for specifications.  
	Training of workers in relation to proper use and maintenance of PPEs must be ensured.
<b>Environmental measures</b>	Prevent that undiluted product reaches surface waters.
	<b>If appropriate AISE SPERC 8a.1.a.v2 may apply:</b> wide dispersive use resulting in release to municipal sewage treatment plant.

### Additional good practice advice

<b>Don't eat or drink.</b> <b>Don't smoke.</b> <b>Don't use in proximity of open flame.</b>	
<b>Wash hands after use.</b> <b>Avoid contact with damaged skin.</b> <b>Do not mix with other products.</b>	
<b>Spillage instructions</b>	Dilute with fresh water and mop up.
<b>Hygiene practices</b>	Follow the product instructions as specified on the label or in the product information sheet and use good occupational hygiene practices as specified in Section 7 of the product SDS.

### Additional information depending on product composition

The label and (when required) the Safety Data Sheet contain additional, product specific information crucial for working safely with mixtures. Please refer to the product label and SDS for information including, but not limited to: product hazard classification, potentially allergenic fragrances, notable ingredients and threshold limit values (when available).

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