

## **SECTION 1. Identification of the substance/mixture and of the company/enterprise**

### **1.1. Product identifier**

Product name : REMOFOAM  
Product code: refer to sales department

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

Highly alkaline foam cleaner

Sectors of use:

Industrial Manufacturing[SU3], Public domain (administration, education, entertainment, services, craftsmen)[SU22]

Product category:

Washing and Cleaning Products (including solvent based products)

Not recommended uses

Do not use for purposes other than those listed

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

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#### 1.4. Emergency telephone number

AEB SpA

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AEB BIOCHEMICAL USA

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AEB AFRICA (PTY) LTD

Switchboard: +27 215512700 (GMT +1; Language: English, Afrikaans)

AEB OCEANIA PTY LTD

Switchboard: +61 1300 704 971 (GMT +9; Language: 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. 1, 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/protective clothing/eye protection/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.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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, Alkyl polyglucoside C8 - 10

### Contains (Reg.EC 648/2004):

5% < 15% non-ionic surfactants, < 5% phosphonates

## 2.3. Other hazards

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

The use of this chemical agent involves the obligation of "risk assessment" by the employer in accordance with the provisions of Dlgs n. 81. April 9, 2008. Workers exposed to this chemical agent should not be subject to health surveillance if the results of the risk assessment show that, depending on the type and quantity of dangerous chemical agent and method and frequency of exposure to the agent, there is only a "moderate Risk" for the health and safety of workers and that the measures laid down in the Decree are sufficient to reduce the risk.

For professional use only

## 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	Classification	Index	CAS	EINECS	REACH
Sodium hydroxide	> 30 <= 50%	Met. Corr. 1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318	011-002-00-6	1310-73-2	215-185-5	01-2119457 892-27-XXX X
Alkyl polyglucoside C8 - 10	> 5 <= 10%	Eye Dam. 1, H318		68515-73-1	500-220-1	01-2119488 530-36-XXX X
Hydrogen pentasodium C, C', C' '-Nitrilotris (methylphosphonate) - ionic mixture	> 1 <= 5%	Eye Irrit. 2, H319		2235-43-0	218-791-8	

## SECTION 4. First aid measures

#### **4.1. Description of first aid measures**

**Inhalation:**

Ventilate the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area. If you feel unwell seek medical advice.

**Direct contact with skin (of the pure product):**

Take off immediately contaminated clothing.

In case of contact with skin, wash immediately with water.

Immediately consult a physician.

**Direct contact with eyes (of the pure product):**

Wash immediately and thoroughly with running water, keeping eyelids open for at least 10 minutes, then protect your eyes with a dry sterile gauze. Seek medical advice immediately.

Do not use eye drops or ointments of any kind before the examination or advice from an oculist.

**Ingestion:**

Drink water with egg white; do not give bicarbonate.

Absolutely do not induce vomiting or emesis. Seek medical advice immediately.

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

If ingested, it can cause chemical burns in the mouth and throat.

Skin contact may cause burns.

Contact with eyes may cause intense irritation, including redness and tearing.

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

Immediately call a POISON CENTER or a doctor.

### **SECTION 5. Firefighting measures**

#### **5.1. Extinguishing media**

**Suggested extinguishing media:**

Water spray, CO<sub>2</sub>, foam, dry chemical, depending on the materials involved in the fire.

**Extinguishing media to avoid:**

Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

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

No data available.

#### **5.3. Advice for firefighters**

Use protection for the breathing apparatus

Safety helmet and full protective clothing.

The water spray can be used to protect the people involved in the extinction.

You may also use self-contained breathing apparatus, especially when working in confined and poorly ventilated areas and if you use halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...)

Keep containers cool with water spray

## **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  
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/protective clothing/eye protection/face protection.

In residential areas do not use on large surfaces.

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 extreme caution.

Store in a well ventilated place away from heat sources.

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

Handle with care. Store in a ventilated area and away from heat, keep the container tightly closed.

## SECTION 8. Exposure controls/personal protection

### 8.1. Control parameters

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Related to contained substances:

Sodium hydroxide:

Limit value – Eight hours

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

Australia: x/x

Austria: x/2 inhalable aerosol

Belgium: x/2

Canada – Ontario: x/x

Canada – Québec: x/x

Denmark: x/2

Finland: x/x

France: x/2

Hungary: x/2

Ireland: x/x

Latvia: x/0,5

New Zealand: x/x

People's Republic of China: x/x

Poland: x/0,5

Singapore: x/x

South Korea: x/x

Spain: x/2

Sweden: x/1

Switzerland: x/2 inhalable aerosol

USA – NIOSH: x/x

USA – OSHA: x/2

United Kingdom: x/x

Limit Value – Short Term

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

Australia: x/2(1)

Austria: x/4 inhalable aerosol

Belgium: x/x

Canada – Ontario: x/2(1)

Canada – Québec: x/2(1)

Denmark: x/2

Finland: x/2(1)

France: x/x

Hungary: x/2

Ireland: x/2(1)

Latvia: x/x

New Zealand: x/2(1)

People's Republic of China: x/2(1)

Poland: x/1

Singapore: x/2  
South Korea: x/2(1)  
Spain: x/x  
Sweden: x/2(1)(2)  
Switzerland: x/2 inhalable aerosol  
USA – NIOSH: x/2(1)  
USA – OSHA: x/x  
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  
New Zealand: (1) Ceiling limit value  
People's Republic of China: (1) Ceiling limit value  
South Korea: (1) Ceiling limit value  
Sweden: (1) Inhalable dust (2) Ceiling limit value  
USA – NIOSH: (1) Ceiling limit value (15 min)

- Substance: Sodium hydroxide

**DNEL**

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

- Substance: Alkyl polyglucoside C8 - 10

**DNEL**

Systemic effects Long term Workers inhalation = 420 (mg/m<sup>3</sup>)  
Systemic effects Long term Workers dermal = 595000 (mg/kg bw/day)  
Systemic effects Long term Consumers inhalation = 124 (mg/m<sup>3</sup>)  
Systemic effects Long term Consumers dermal = 357000 (mg/kg bw/day)  
Systemic effects Long term Consumers oral = 35,7 (mg/kg bw/day)

**PNEC**

Sweet water = 0,176 (mg/l)  
sediment Sweet water = 1516 (mg/kg/sediment)  
Sea water = 0,0176 (mg/l)  
sediment Sea water = 0,152 (mg/kg/sediment)  
intermittent emissions = 0,27 (mg/l)  
STP = 560 (mg/l)

## 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 use safety glasses (EN 166).

(b) Skin protection

(i) Hand protection

When handling the pure product use chemical resistant protective gloves (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 RSPP

(c) Respiratory protection

Not needed for normal use.

During manual operations in case of insufficient ventilation, use mask with gas filters and inorganic vapors - Grey , Class 3 , B ( EN 143 ) unless otherwise provided by the employer and / or assessments of environmental investigations hygienistic

(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	clear brown liquid	
Odour	not determined as considered not relevant for the characterization of the product	
Odour threshold	not determined as considered not relevant for the characterization of the product	
pH	> 12 (20 ° C, sol% 1)	
Melting point/freezing point	not determined as considered not relevant for the characterization of the product	
Initial boiling point and boiling range	not determined as considered not relevant for the characterization of the product	
Flash point	not determined as considered not relevant for the characterization of the product	ASTM D92
Evaporation rate	not determined as considered not relevant for the characterization of the product	
Flammability (solid, gas)	not determined as considered not relevant for the characterization of the product	
Upper/lower flammability or explosive limits	not determined as considered not relevant for the characterization of the product	
Vapour pressure	not determined as considered not relevant for the characterization of the product	
Vapour density	not determined as considered not relevant for the characterization of the product	
Relative density	1,45 ± 0,05 (20° C)	



Physical and chemical properties	Value	Determination method
Solubility	in water	
Water solubility	miscible in all proportions	
Partition coefficient: n-octanol/water	not determined as considered not relevant for the characterization of the product	
Auto-ignition temperature	not determined as considered not relevant for the characterization of the product	
Decomposition temperature	not determined as considered not relevant for the characterization of the product	
Viscosity	not determined as considered not relevant for the characterization of the product	
Explosive properties	not determined as considered not relevant for the characterization of the product	
Oxidising properties	not determined as considered not relevant for the characterization of the product	

## 9.2. Other information

No data available.

## SECTION 10. Stability and reactivity

### 10.1. Reactivity

Strong base

### 10.2. Chemical stability

In contact with air produces carbonates

### 10.3. Possibility of hazardous reactions

Reacts with aluminium, Tin, zinc and their alloys, bronze, lead, etc. by emitting hydrogen.  
Exothermic reaction with strong acids.

### 10.4. Conditions to avoid

Avoid prolonged contact with the air, storage to temp. less than 7° C and as specified in 10.3

### 10.5. Incompatible materials

Can generate flammable gases halogenated organic substances, primary metals

## 10.6. Hazardous decomposition products

No decomposition if used for the intended uses.

## SECTION 11. Toxicological information

### 11.1. Information on toxicological effects

ATE(mix) oral =  $\infty$   
ATE(mix) dermal =  $\infty$   
ATE(mix) inhal =  $\infty$

(a) acute toxicity: Sodium hydroxide: Produce burns in the skin or into the eyes to direct contact or digestive tract if swallowed. The mists of fine particles are irritating to the skin and respiratory system

Alkyl polyglucoside C8 - 10: Practically non-toxic to individual skin contact and/or single ingestion

Oral rat LD50 value: > 2000 mg/kg

Dermal LC50 rat/rabbit value: > 2000

Hydrogen pentasodium C, C', C''-Nitrilotris (methylphosphonate) - ionic mixture: Ingestion-rat LD50 (mg/kg/bw 24h): 17800

Skin contact-LC50 rat/coniglio (mg/kg/bw 24h): > 15800

Inhalation-rat LD50 (mg/l/4h): n.a.

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

Sodium hydroxide: Corrosive

Alkyl polyglucoside C8 - 10: Non-corrosive

Hydrogen pentasodium C, C', C''-Nitrilotris (methylphosphonate) - ionic mixture: Non-corrosive

Sodium hydroxide: Irritation

Alkyl polyglucoside C8 - 10: Slightly irritating

Hydrogen pentasodium C, C', C''-Nitrilotris (methylphosphonate) - ionic mixture: Non-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.

Sodium hydroxide: Corrosive

Alkyl polyglucoside C8 - 10: Corrosive

Hydrogen pentasodium C, C', C''-Nitrilotris (methylphosphonate) - ionic mixture: Non-corrosive

Sodium hydroxide: Irritation

Alkyl polyglucoside C8 - 10: Irritant

Hydrogen pentasodium C, C', C''-Nitrilotris (methylphosphonate) - ionic mixture: Irritating

(d) respiratory or skin sensitization: Sodium hydroxide: Non-sensitizing

Alkyl polyglucoside C8 - 10: Non-sensitizing

Hydrogen pentasodium C, C', C''-Nitrilotris (methylphosphonate) - ionic mixture: Non-sensitizing

(e) germ cell mutagenicity: Sodium hydroxide: Non-mutagenic

Alkyl polyglucoside C8 - 10: Non-mutagenic

Hydrogen pentasodium C, C', C''-Nitrilotris (methylphosphonate) - ionic mixture: Not available

(f) carcinogenicity: Sodium hydroxide: Non-carcinogenic

Alkyl polyglucoside C8 - 10: Non-carcinogenic

Hydrogen pentasodium C, C', C''-Nitrilotris (methylphosphonate) - ionic mixture: Not available

(g) reproductive toxicity: Sodium hydroxide: Non-toxic for reproduction

Alkyl polyglucoside C8 - 10: Non-toxic for reproduction

Hydrogen pentasodium C, C', C'-Nitrilotris (methylphosphonate) - ionic mixture: Not available  
(h) specific target organ toxicity (STOT) single exposure: Sodium hydroxide: The substance can be absorbed into the body by inhalation of its aerosol and swallowed.  
Alkyl polyglucoside C8 - 10: Not available  
Hydrogen pentasodium C, C', C'-Nitrilotris (methylphosphonate) - ionic mixture: Not available  
(i) specific target organ toxicity (STOT) repeated exposure: Sodium hydroxide: The substance can be absorbed into the body by inhalation of its aerosol and swallowed. Symptoms of lung oedema often do not manifest themselves before a few hours and are aggravated by physical effort. Medical observation are therefore essential relaxation and  
Alkyl polyglucoside C8 - 10: Not available  
Hydrogen pentasodium C, C', C'-Nitrilotris (methylphosphonate) - ionic mixture: Not available  
(j) aspiration hazard: Sodium hydroxide: Not available  
Alkyl polyglucoside C8 - 10: Not available  
Hydrogen pentasodium C, C', C'-Nitrilotris (methylphosphonate) - ionic mixture: Not available

Related to contained substances:

Hydrogen pentasodium C, C', C'-Nitrilotris (methylphosphonate) - ionic mixture:

LD50 (rat) Oral (mg/kg body weight) = 17800

## SECTION 12. Ecological information

### 12.1. Toxicity

Related to contained substances:

Sodium hydroxide:

Endpoint: EC50-species: Daphnia = 40 mg/l-h Duration: 48-Note: ECHA

Alkyl polyglucoside C8 - 10:

Ittiotossicità:

LC50 > 100 mg/l (DIN EN ISO 7346-2)

Aquatic invertebrates:

EC50 > 100 mg/l (OECD-guideline 202, part 1)

Aquatic plants:

EC50 > 10-100 mg/l (Directive 88/302/EEC, part C, p 89)

Microorganisms/effects on activated sludge:

Ce0 > 100 mg/l (OECD-guideline 209)

Ce0 > 100 mg/l (DIN 38412 part 8)

Chronic toxicity on fish:

NOEC > 1-10 mg/l (OECD Guideline 204)

Chronic toxicity to aquatic invertebrates:

NOEC > 1-10 mg/l (OECD-guideline 202, part 2)

Hydrogen pentasodium C, C', C'-Nitrilotris (methylphosphonate) - ionic mixture:

Not available

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

### 12.2. Persistence and degradability

Related to contained substances:

Sodium hydroxide:

Study scientifically unjustified

Alkyl polyglucoside C8 - 10:

Evaluation of biodegradability and delete (H<sub>2</sub>O):

Readily biodegradable (according to OECD criteria).

Disposal considerations:

(Annex III, part A) The surfactant (s) contained in this formulation is (are) subject (s) to the biodegradability criteria as laid down in Regulation (EC) No 648/2004 on detergents. All the supporting data shall be kept available to the competent authorities of the Member States and will be provided to the authorities at their request or at the request of a manufacturer of the formula.

Hydrogen pentasodium C, C', C'-Nitrilotris (methylphosphonate) - ionic mixture:

Not available

### 12.3. Bioaccumulative potential

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Related to contained substances:

Sodium hydroxide:

Study scientifically unjustified

Alkyl polyglucoside C8 - 10:

Assessment of bioaccumulation potential:

You don't have to wait for a build up in organisms.

Hydrogen pentasodium C, C', C'-Nitrilotris (methylphosphonate) - ionic mixture:

Not available

### 12.4. Mobility in soil

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Related to contained substances:

Sodium hydroxide:

Study scientifically unjustified

Alkyl polyglucoside C8 - 10:

Evaluation transport between environmental compartments:

The substance does not evaporate into the atmosphere from the surface of the water.

The soil solid phase absorption is possible.

Hydrogen pentasodium C, C', C'-Nitrilotris (methylphosphonate) - ionic mixture:

Not available

### 12.5. Results of PBT and vPvB assessment

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

### 12.6. 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

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. (Idrossido di sodio 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. Transport in bulk according to Annex II of MARPOL73/78 and IBC Code**

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  
Substances subject to authorisation (Ann. XIV Reg. CEC 1907/2006): the product does not contain SVHC  
Reg. EC 648/04: see 2.2  
Reg. (EU) n. 1169/2011: see 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: 2.2. Label elements

Description of hazard statements set out in paragraph 3

H290 = May be corrosive to metals.

H314 = Causes severe skin burns and eye damage.

H318 = Causes serious eye damage.

H319 = Causes serious eye irritation.

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.

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

Physical hazards: On the basis of experimental data

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

Other hazards: 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>

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Changes to the previous edition: label variation.

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