

## Safety Data Sheet

# EMULSIO NATURALE BAGNO E DOCCIA ANTICALCARE - RICARICA

Safety Data Sheet dated 30/6/2016, version 2

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Mixture identification

Trade name: EMULSIO NATURALE BAGNO E DOCCIA ANTICALCARE - RICARICA

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

Recommended use:

Concentrated detergent for hard surfaces.

Consumer use (SU21) - Products for washing and cleaning (PC35)

Uses advised against:

Different uses than recommended. Do not use in combination with other products.

1.3. Details of the supplier of the safety data sheet

Manufacturer:

SUTTER INDUSTRIES s.p.a. - Società con Unico Socio

15060 Borghetto Borbera (AL) Italia

Tel. +39 0143 631.1

Competent person responsible for the safety data sheet:

regulatory.affairs@sutter.it


1.4. Emergency telephone number


+39 0143 631.1 mon-fri 9.00/17.00


### SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

 Warning, Flam. Liq. 3, Flammable liquid and vapour.

 Warning, Skin Irrit. 2, Causes skin irritation.

 Danger, Eye Dam. 1, Causes serious eye damage.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

## Safety Data Sheet

### EMULSIO NATURALE BAGNO E DOCCIA ANTICALCARE - RICARICA

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear eye protection.

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 doctor/physician.

P370+P378 In case of fire, use a dry powder fire extinguisher to extinguish.

Special Provisions:

None

Contents

L-(+)-LACTIC ACID

ALKYL POLYGLUCOSIDE

SODIUM OCTYL SULFATE

Product contents:

anionic surfactants, non-ionic surfactants 5 - 15 %

The product also contains: Perfumes

Allergens:

Preservatives:

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

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### SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable, the product is a mixture


3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

>= 25% - < 30% L-(+)-LACTIC ACID

REACH No.: 01-2119474164-39, CAS: 79-33-4, EC: 201-196-2

 3.2/2 Skin Irrit. 2 H315

 3.3/1 Eye Dam. 1 H318


>= 12.5% - < 15% ALKYL POLYGLUCOSIDE

REACH No.: 01-2119488530-36, CAS: 68515-73-1, EC: 500-220-1

 3.3/1 Eye Dam. 1 H318

>= 10% - < 12.5% SODIUM OCTYL SULFATE


REACH No.: 01-2119966154-35, CAS: 142-31-4, EC: 205-535-5

 3.2/2 Skin Irrit. 2 H315

 3.3/1 Eye Dam. 1 H318

>= 5% - < 7% CITRIC ACID MONOHYDRATE

REACH No.: 01-2119457026-42, CAS: 5949-29-1, EC: 201-069-1


 3.3/2 Eye Irrit. 2 H319

## Safety Data Sheet

### EMULSIO NATURALE BAGNO E DOCCIA ANTICALCARE - RICARICA

>= 5% - < 7% ETHANOL; ETHYL ALCOHOL

REACH No.: 01-2119457610-43, Index number: 603-002-00-5, CAS: 64-17-5, EC: 200-578-6

 2.6/2 Flam. Liq. 2 H225

 3.3/2 Eye Irrit. 2 H319

>= 0.25% - < 0.5% PROPAN-2-OL

REACH No.: 01-2119457558-25, Index number: 603-117-00-0, CAS: 67-63-0, EC: 200-661-7


 2.6/2 Flam. Liq. 2 H225

 3.3/2 Eye Irrit. 2 H319

 3.8/3 STOT SE 3 H336

>= 0.1% - < 0.25% 2,6-DI-TERT-BUTYL-P-CRESOL

REACH No.: 01-2119565113-46, CAS: 128-37-0, EC: 204-881-4

 4.1/A1 Aquatic Acute 1 H400

 4.1/C1 Aquatic Chronic 1 H410

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#### SECTION 4: First aid measures

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

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

Acute effects:

Severe skin and eye irritation for contact.

Irritation interior system if swallowed.

Until revision date of this document, are unknown chronic effects from the mixture contact with skin, eyes, inhalation, ingestion.

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

## Safety Data Sheet

### EMULSIO NATURALE BAGNO E DOCCIA ANTICALCARE - RICARICA

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

Until the revision date of this document, no adverse effects and symptoms to exposure of the product are known, including chemical reactivity and instability.

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#### SECTION 5: Firefighting measures

##### 5.1. Extinguishing media

Suitable extinguishing media:

In case of fire, use a dry powder fire extinguisher to extinguish.

Extinguishing media which must not be used for safety reasons:

None in particular.

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

The product does not contain ingredients classified as explosive according to Regulation 1272/2008/EC (CLP).

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

##### 5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

The mixture does not contain ingredients classified as explosive according to EC Regulation 1272/2008 (CLP).

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#### SECTION 6: Accidental release measures

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

Wear personal protection equipment.

Remove all sources of ignition.

Remove persons to safety.

See protective measures under point 7 and 8.

##### 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

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

Wash with plenty of water. To converge the product in containment tanks.

##### 6.4. Reference to other sections

See also section 8 and 13

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#### SECTION 7: Handling and storage

##### 7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

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

Store away from sunlight.

Store in a cool and well ventilated place.

## Safety Data Sheet

### EMULSIO NATURALE BAGNO E DOCCIA ANTICALCARE - RICARICA

Store in area dedicated to acid products, keep away from alkalis and chlorine based oxidants.  
Store away from heat sources.

Do not store in open or unlabeled containers.

Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Keep away from food, drink and feed.

Incompatible materials:

None in particular. See also section 10.

Instructions as regards storage premises:

Cool and adequately ventilated.

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

None in particular, see paragraph 1.2

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Until the revision date of this document, no experimental data are available for the mixture.

Below, listed occupational exposure limits, if available, for the components listed in paragraph 3.2.

ETHANOL; ETHYL ALCOHOL - CAS: 64-17-5

EU - LTE(8h): 1920 mg/m<sup>3</sup>, 1000 ppm - Notes: WEL

ACGIH - STE(15min): 1880 mg/m<sup>3</sup>, 1000 ppm - Notes: A3 - URT irr

PROPAN-2-OL - CAS: 67-63-0

ACGIH - LTE(8h): 492 mg/m<sup>3</sup>, 200 ppm - STE(15min): 983 mg/m<sup>3</sup>, 400 ppm - Notes:

A4, BEI - Eye and URT irr, CNS impair

2,6-DI-TERT-BUTYL-P-CRESOL - CAS: 128-37-0

ACGIH - LTE(8h): 2 mg/m<sup>3</sup> - Notes: A4, (IFV) - URT irr

### DNEL Exposure Limit Values

Until the revision date of this document, no experimental data are available for the mixture.

Below, listed the DNEL exposure limits, if available, for the components listed in paragraph 3.2.

ALKYL POLYGLUCOSIDE - CAS: 68515-73-1

Worker Industry: 595000 mg/kg - Consumer: 357000 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 420 mg/m<sup>3</sup> - Consumer: 124 mg/m<sup>3</sup> - Exposure: Human Inhalation -

Frequency: Long Term, systemic effects

Consumer: 35.7 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

SODIUM OCTYL SULFATE - CAS: 142-31-4

Worker Industry: 285 mg/m<sup>3</sup> - Consumer: 85 mg/m<sup>3</sup> - Exposure: Human Inhalation -

Frequency: Long Term, systemic effects

Worker Industry: 4060 mg/kg - Consumer: 2440 mg/kg - Exposure: Human Dermal -

Frequency: Long Term, systemic effects

Consumer: 24 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

ETHANOL; ETHYL ALCOHOL - CAS: 64-17-5

Worker Industry: 1900 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Industry: 950 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 343 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects - Notes: bw/day

PROPAN-2-OL - CAS: 67-63-0

Worker Industry: 888 mg/kg - Consumer: 319 mg/kg - Exposure: Human Dermal -

Frequency: Long Term, systemic effects

Worker Industry: 500 mg/m<sup>3</sup> - Consumer: 89 mg/m<sup>3</sup> - Exposure: Human Inhalation -

Frequency: Long Term, systemic effects

## Safety Data Sheet

### EMULSIO NATURALE BAGNO E DOCCIA ANTICALCARE - RICARICA

Consumer: 26 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects  
2,6-DI-TERT-BUTYL-P-CRESOL - CAS: 128-37-0  
Worker Industry: 0.5 mg/kg - Consumer: 0.25 mg/kg - Exposure: Human Dermal -  
Frequency: Long Term, systemic effects - Notes: bw/d  
Worker Industry: 3.5 mg/m<sup>3</sup> - Consumer: 0.86 mg/m<sup>3</sup> - Exposure: Human Inhalation -  
Frequency: Long Term, systemic effects - Notes: bw/d  
Worker Industry: 0.5 mg/kg - Consumer: 0.25 mg/kg - Exposure: Human Oral -  
Frequency: Long Term, systemic effects

#### PNEC Exposure Limit Values

Until the revision date of this document, no experimental data are available for the mixture.  
Below, listed the PNEC exposure limits, if available, for the components listed in paragraph 3.2.

L-(+)-LACTIC ACID - CAS: 79-33-4

Target: Fresh Water - Value: 1.3 mg/l

Target: Microorganisms in sewage treatments - Value: 10 mg/l

ALKYL POLYGLUCOSIDE - CAS: 68515-73-1

Target: Marine water - Value: 0.0176 mg/l

Target: Microorganisms in sewage treatments - Value: 560 mg/l

Target: Marine water sediments - Value: 0.152 mg/kg

Target: Soil (agricultural) - Value: 0.654 mg/kg

Target: Food chain - Value: 111.11 mg/kg

SODIUM OCTYL SULFATE - CAS: 142-31-4

Target: Marine water - Value: 0.01357 mg/l

Target: Fresh Water - Value: 0.1357 mg/l

Target: Marine water sediments - Value: 0.15 mg/kg

Target: Freshwater sediments - Value: 1.5 mg/kg

Target: Soil (agricultural) - Value: 0.22 mg/kg

CITRIC ACID MONOHYDRATE - CAS: 5949-29-1

Target: Marine water - Value: 0.044 mg/l

Target: Fresh Water - Value: 0.44 mg/l

Target: Marine water sediments - Value: 34.6 mg/kg

Target: Freshwater sediments - Value: 3.46 mg/kg

Target: Soil (agricultural) - Value: 33.1 mg/kg

ETHANOL; ETHYL ALCOHOL - CAS: 64-17-5

Target: Marine water - Value: 0.79 mg/l

Target: Fresh Water - Value: 0.96 mg/l

Target: Marine water sediments - Value: 2.9 mg/kg

Target: Soil (agricultural) - Value: 0.63 mg/kg

Target: Freshwater sediments - Value: 3.6 mg/kg

PROPAN-2-OL - CAS: 67-63-0

Target: Microorganisms in sewage treatments - Value: 2251 mg/l

Target: Marine water sediments - Value: 552 mg/kg

Target: Soil (agricultural) - Value: 28 mg/kg

Target: Marine water - Value: 140.9 mg/l

2,6-DI-TERT-BUTYL-P-CRESOL - CAS: 128-37-0

Target: Marine water - Value: 0.0000199 mg/l

Target: Fresh Water - Value: 0.000199 mg/l

Target: Marine water sediments - Value: 0.00996 mg/kg

Target: Freshwater sediments - Value: 0.0996 mg/kg

Target: Soil (agricultural) - Value: 0.04769 mg/kg

#### 8.2. Exposure controls

Eye protection:

Use close fitting safety goggles, don't use eye lens.(EN 166)

Protection for skin:

## Safety Data Sheet

### EMULSIO NATURALE BAGNO E DOCCIA ANTICALCARE - RICARICA

Use clothing that provides comprehensive protection to the skin.(EN14605 in case of spray or EN 13982 in case of powder)

#### Protection for hands:

Use protective gloves that provides comprehensive protection, (EN 388 - EN 374 protection factor 6, corresponding to a breakthrough time >480 minutes).

Due to great diversity of types, observe the operating instructions of the manufacturer with respect to substances listed in paragraph 3.2.

#### Respiratory protection:

Not needed for normal use.

#### Thermal Hazards:

The product is flammable.

The product is not explosive - see paragraph 2.1. The product contains no explosive components.

Until the revision date of this document, no adverse effects and symptoms to exposure of the product are known, including chemical reactivity and instability.

#### Environmental exposure controls:

Until the revision date of this document, no adverse effects and symptoms to exposure of the product are known, including chemical reactivity and instability.

See also section 6.2.

#### Appropriate engineering controls:

No further technical checks suitable for your product under normal conditions.

See also section 1.2, section 7 and Exposure Scenario - Annex I of this document.

## SECTION 9: Physical and chemical properties

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

Properties	Value	Method:	Notes:
Appearance and colour:	Clear liquid, green	Visual	--
Odour:	Apple vinegar	Olfactory	--
Odour threshold:	Evident	Olfactory	--
pH:	>2	Instrumental control	--
Melting point / freezing point:	Not Relevant	--	Parameter not relevant for the type of product
Initial boiling point and boiling range:	>=100°C	--	Estimated value on chemical / physical properties of components
Flash point:	48 ° C	ABEL PENSKY	--
Evaporation rate:	Not Relevant	--	Parameter not relevant for the type of product
Solid/gas flammability:	Not Relevant	--	Parameter not relevant for the type of product
Upper/lower flammability or explosive limits:	Not Relevant	--	Parameter not relevant for the type of product
Vapour pressure:	Not Relevant	--	Parameter not relevant for the type of product
Vapour density:	Not Relevant	--	Parameter not relevant for the type of product
Relative density:	1.132 g/ml	Instrumental control	--
Solubility in water:	Total	--	Internal test

## Safety Data Sheet

### EMULSIO NATURALE BAGNO E DOCCIA ANTICALCARE - RICARICA

Solubility in oil:	Partial	--	Parameter not relevant for the type of product
Partition coefficient (n-octanol/water):	< 1000	--	Value estimated based on the solubility of the mixture.
Auto-ignition temperature:	Not applicable	--	Parameter not relevant for the type of product
Decomposition temperature:	Not applicable	--	Parameter not relevant for the type of product
Viscosity:	Not applicable	--	Estimated indicative value. Not viscous mixture.
Explosive properties:	Not applicable	--	Parameter not relevant for product composition.
Oxidizing properties:	Not applicable	--	Parameter not relevant for product composition.

#### 9.2. Other information

Properties	Value	Method:	Notes:
Miscibility:	Not applicable	--	Parameter not relevant for the type of product
Fat Solubility:	Not applicable	--	Parameter not relevant for the type of product
Conductivity:	Not applicable	--	Parameter not relevant for the type of product
Substance Groups relevant properties	Not applicable	--	Parameter not relevant for the type of product

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Do not use in combination with other products.

Until the revision date of this document, no adverse effects and symptoms to exposure of the product are known, including chemical reactivity and instability.

### 10.2. Chemical stability

Until the revision date of this document, no adverse effects and symptoms to exposure of the product are known, including chemical reactivity and instability.

### 10.3. Possibility of hazardous reactions

Store in area dedicated to acid products, keep away from alkalis and chlorine based oxidants.

Until the revision date of this document, no adverse effects and symptoms to exposure of the product are known, including chemical reactivity and instability.

See also section 7.2.

### 10.4. Conditions to avoid

Avoid direct sunlight and exposure to heat sources.

Different uses than recommended. Do not use in combination with other products. See also 1.2 and 7.2

### 10.5. Incompatible materials

Until the revision date of this document, no adverse effects and symptoms to exposure of the product are known, including chemical reactivity and instability. see also 1.2 and 7.2.

### 10.6. Hazardous decomposition products

Until the revision date of this document, no adverse effects and symptoms to exposure of the product are known, including chemical reactivity and instability.



Do not use in combination with other products.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Toxicological information of the mixture:

Until the revision date of this document, are not available experimental toxicological data on the mixture.

For the classification of the mixture see section 2.1.

Not applicable

Toxicological information of the main substances found in the mixture:

Below are reported, if available, the toxicological information of the components listed in paragraph 3.2.

L-(+)-LACTIC ACID - CAS: 79-33-4

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat > 7.94 mg/l - Duration: 4h

Test: LD50 - Route: Oral - Species: Rat = 3543 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg

c) serious eye damage/irritation:

Test: Eye Corrosive Yes

ALKYL POLYGLUCOSIDE - CAS: 68515-73-1

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg

b) skin corrosion/irritation:

Test: Skin Irritant Negative

c) serious eye damage/irritation:

Test: Eye Corrosive Positive

d) respiratory or skin sensitisation:

Test: SKIN\_INHAL Negative

e) germ cell mutagenicity:

Test: Mutagenesis Negative - Source: Ames test

SODIUM OCTYL SULFATE - CAS: 142-31-4

a) acute toxicity:

Test: LD50 - Route: Oral > 2000 mg/kg

Test: LD50 - Route: Skin > 2000 mg/kg

b) skin corrosion/irritation:

Test: Skin Irritant - Route: Skin - Species: Rabbit Positive

c) serious eye damage/irritation:

Test: Eye Corrosive Positive

d) respiratory or skin sensitisation:

Test: SKIN\_INHAL Negative

e) germ cell mutagenicity:

Test: Mutagenesis Negative - Source: Ames test

f) carcinogenicity:

Test: Carcinogenicity Negative

g) reproductive toxicity:

Test: Reproductive Toxicity Negative

h) STOT-single exposure:

Test: STOT Sing Negative

CITRIC ACID MONOHYDRATE - CAS: 5949-29-1

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Mouse = 5400 mg/kg

Test: LD50 - Route: Skin > 2000 mg/kg

Test: NOAEL - Route: Oral - Species: Rat = 4 mg/kg bw/d

## Safety Data Sheet

### EMULSIO NATURALE BAGNO E DOCCIA ANTICALCARE - RICARICA

- b) skin corrosion/irritation:
    - Test: Skin Irritant - Route: Skin - Species: Rabbit Negative - Source: OECD 404
  - c) serious eye damage/irritation:
    - Test: Eye Irritant - Species: Rabbit Positive - Source: OECD 405
  - e) germ cell mutagenicity:
    - Test: Mutagenesis Negative - Source: Ames Test
  - g) reproductive toxicity:
    - Test: NOAEL - Species: Rat > 295 mg/kg bw/d
- ETHANOL; ETHYL ALCOHOL - CAS: 64-17-5
- a) acute toxicity:
    - Test: LD50 - Route: Oral - Species: Rat > 6200 mg/kg - Source: OECD401
    - Test: LC50 - Route: Inhalation - Species: Rat > 50 mg/m<sup>3</sup> - Source: OECD403
    - Test: LD50 - Route: Skin - Species: Rabbit = 20 g/kg
  - c) serious eye damage/irritation:
    - Test: Eye Irritant Positive - Source: OECD405
- PROPAN-2-OL - CAS: 67-63-0
- a) acute toxicity:
    - Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg
    - Test: LC50 - Route: Inhalation - Species: Rat > 10000 ppm - Duration: 6h
    - Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg
  - b) skin corrosion/irritation:
    - Test: Skin Irritant - Route: Skin - Species: Rabbit No - Source: OECD 404
  - c) serious eye damage/irritation:
    - Test: Eye Corrosive - Species: Rabbit Yes - Source: OECD 405
  - d) respiratory or skin sensitisation:
    - Test: SKIN\_INHAL Negative
  - e) germ cell mutagenicity:
    - Test: Mutagenesis Negative
  - g) reproductive toxicity:
    - Test: NOAEL - Route: Oral - Species: Rabbit = 480 mg/kg
- 2,6-DI-TERT-BUTYL-P-CRESOL - CAS: 128-37-0
- a) acute toxicity:
    - Test: LD50 - Route: Oral - Species: Rat = 6000 mg/kg - Source: OECD 401
    - Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg - Source: OECD 402
  - b) skin corrosion/irritation:
    - Test: Skin Irritant Negative
  - c) serious eye damage/irritation:
    - Test: Eye Irritant Negative
  - d) respiratory or skin sensitisation:
    - Test: SKIN\_INHAL Negative
  - e) germ cell mutagenicity:
    - Test: Mutagenesis Negative
  - f) carcinogenicity:
    - Test: Carcinogenicity Negative
  - g) reproductive toxicity:
    - Test: NOAEL - Route: Oral - Species: Mouse = 100 mg/kg bw/d
  - i) STOT-repeated exposure:
    - Test: NOAEL - Species: Rat = 25 mg/kg bw/d - Notes: digestive, urogenital, glandular

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as Not Applicable:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;

- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

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## SECTION 12: Ecological information

### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

The environmental hazard of the product are reported in Section 2.1 if applicable.

Until the revision date of this document, are not available experimental data on the mixture.

Below are reported, if available, the eco-toxicological information of the components listed in paragraph 3.2.

L-(+)-LACTIC ACID - CAS: 79-33-4

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae > 2800 mg/l - Duration h: 72 - Notes:

*Pseudokirchnerella subcapitata*

Endpoint: EC50 - Species: Daphnia = 130 mg/l - Duration h: 48 - Notes: Daphnia magna

Endpoint: LC50 - Species: Fish = 320 mg/l - Duration h: 96 - Notes: Danio rerio

Endpoint: LC50 - Species: FANGHI > 100 mg/l - Duration h: 3

ALKYL POLYGLUCOSIDE - CAS: 68515-73-1

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 100 mg/l - Notes: Brachydanio rerio

Endpoint: EC50 - Species: Daphnia > 100 mg/l - Notes: Daphnia magna

Endpoint: EC50 - Species: Algae > 10 mg/l - Notes: *Scenedesmus subspicatus*

Endpoint: EC0 - Species: FANGHI > 100 mg/l - Notes: *Pseudomonas putida*

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish > 1 mg/l - Notes: *Pseudomonas putida*

Endpoint: NOEC - Species: Daphnia > 1 mg/l - Notes: Daphnia magna

SODIUM OCTYL SULFATE - CAS: 142-31-4

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 100 mg/l

Endpoint: EC50 - Species: Daphnia > 100 mg/l

Endpoint: EC50 - Species: Algae > 100 mg/l

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish > 1 mg/l

Endpoint: NOEC - Species: Daphnia > 1 mg/l

c) Bacteria toxicity:

Endpoint: EC0 - Species: FANGHI > 100 mg/l

CITRIC ACID MONOHYDRATE - CAS: 5949-29-1

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 440 mg/l - Duration h: 48 - Notes: *Leuciscus idus melanotus*

Endpoint: EC50 - Species: Daphnia = 1535 mg/l - Duration h: 24 - Notes: Daphnia magna

Endpoint: EC50 - Species: Algae = 990 mg/l - Duration h: 72 - Notes: Alga

c) Bacteria toxicity:

Endpoint: EC50 - Species: FANGHI > 10000 mg/l - Duration h: 16 - Notes: *Pseudomonas putida*

ETHANOL; ETHYL ALCOHOL - CAS: 64-17-5

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae = 275 mg/l - Duration h: 72 - Notes: *Chlorella vulgaris*

Endpoint: LC50 - Species: Fish = 13000 mg/l - Duration h: 96 - Notes: *Salmo gairdneri*

## Safety Data Sheet

### EMULSIO NATURALE BAGNO E DOCCIA ANTICALCARE - RICARICA

Endpoint: EC50 - Species: Daphnia = 12340 mg/l - Duration h: 48 - Notes: Daphnia magna

PROPAN-2-OL - CAS: 67-63-0

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 9640 mg/l - Duration h: 48 - Notes: Pimephales promelas

Endpoint: EC50 - Species: Daphnia > 1000 mg/l - Duration h: 24 - Notes: Daphnia magna

Endpoint: EC50 - Species: Algae = 1800 mg/l - Duration h: 168 - Notes: Scenedesmus quadricauda

2,6-DI-TERT-BUTYL-P-CRESOL - CAS: 128-37-0

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 5 mg/l - Duration h: 48 - Notes: Oryzias latipes

Endpoint: EC50 - Species: Daphnia = 0.48 mg/l - Duration h: 48 - Notes: Daphnia magna

Endpoint: EC50 - Species: Algae = 6 mg/l - Duration h: 72 - Notes: Pseudokirchneriella subcapitata

Endpoint: NOEC - Species: Daphnia = 0.15 mg/l

#### 12.2. Persistence and degradability

Until the revision date of this document, are not available experimental data on the mixture.

Below are reported, if available, the eco-toxicological information of the components listed in paragraph 3.2.

ALKYL POLYGLUCOSIDE - CAS: 68515-73-1

Biodegradability: Readily biodegradable

SODIUM OCTYL SULFATE - CAS: 142-31-4

Biodegradability: Readily biodegradable

CITRIC ACID MONOHYDRATE - CAS: 5949-29-1

Biodegradability: Readily biodegradable - Test: OECD 302B - Duration: 14 d - %: 85 -

ETHANOL; ETHYL ALCOHOL - CAS: 64-17-5

Biodegradability: Readily biodegradable

The surfactant(s) contained in this preparation complies with the biodegradability criteria laid down in Regulation (EC) No 648/2004 on detergents. All supporting data are kept available to the competent authorities of the Member States and will be provided to those authorities if they so request or at the request of a detergent manufacturer.

#### 12.3. Bioaccumulative potential

Until the revision date of this document, are not available experimental data on the mixture.

Below are reported, if available, the eco-toxicological information of the components listed in paragraph 3.2.

L-(+)-LACTIC ACID - CAS: 79-33-4

Bioaccumulation: Bioaccumulative – Test Kow - Partition coefficient: -0.62

ETHANOL; ETHYL ALCOHOL - CAS: 64-17-5

Bioaccumulation: Slightly bioaccumulative - Test: Kow - Partition coefficient -0.31 -

2,6-DI-TERT-BUTYL-P-CRESOL - CAS: 128-37-0

Bioaccumulation: Not bioaccumulative - Test: BCF - Bioconcentration factor 598

#### 12.4. Mobility in soil

Until the revision date of this document, are not available experimental data on the mixture.

Below are reported, if available, the eco-toxicological information of the components listed in paragraph 3.2.

Not applicable

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

vPvB Substances: None - PBT Substances: None

#### 12.6. Other adverse effects

Until the revision date of this document, unknown adverse effects and symptoms towards the environment.

**SECTION 13: Disposal considerations**

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force. Do not discharge into the ground or into drains.  
See also section 6

**SECTION 14: Transport information**



14.1. UN number

ADR-UN Number: 1993  
IATA-UN Number: 1993  
IMDG-UN Number: 1993

14.2. UN proper shipping name

ADR-Shipping Name: FLAMMABLE LIQUID, N.O.S. (ethanol, propan-2-ol)  
IATA-Shipping Name: FLAMMABLE LIQUID, N.O.S. (ethanol, propan-2-ol)  
IMDG-Shipping Name: FLAMMABLE LIQUID, N.O.S. (ethanol, propan-2-ol)

14.3. Transport hazard class(es)

ADR-Class: 3  
ADR-Label: 3  
ADR - Hazard identification number: 30  
IATA-Class: 3  
IATA-Label: 3  
IMDG-Class: 3  
IMDG-Label: 3

14.4. Packing group

ADR-Packing Group: III  
IATA-Packing group: III  
IMDG-Packing group: III

14.5. Environmental hazards

ADR-Environmental Pollutant: No  
IMDG-Marine pollutant: No

14.6. Special precautions for user

ADR-Subsidiary risks: -  
ADR-S.P.: 274 601  
ADR-Tunnel Restriction Code: D/E  
IATA-Passenger Aircraft: 355  
IATA-Subsidiary risks: -  
IATA-Cargo Aircraft: 366  
IATA-S.P.: -  
IATA-ERG: 3L  
IMDG-S.P.: 223 274 955  
IMDG-EmS: F-E , S-E  
IMDG-Subsidiary risks: -  
IMDG-Storage category: Category A  
IMDG-Storage notes: -  
IMDG-Segregation notes: -

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

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**SECTION 15: Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture  
Dir. 98/24/EC (Risks related to chemical agents at work)  
Dir. 2000/39/EC (Occupational exposure limit values)  
Regulation (EC) n. 1907/2006 (REACH)  
Regulation (EC) n. 1272/2008 (CLP)  
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013  
Regulation (EU) 2015/830  
Regulation (EU) n. 286/2011 (ATP 2 CLP)  
Regulation (EU) n. 618/2012 (ATP 3 CLP)  
Regulation (EU) n. 487/2013 (ATP 4 CLP)  
Regulation (EU) n. 944/2013 (ATP 5 CLP)  
Regulation (EU) n. 605/2014 (ATP 6 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

None

Where applicable, refer to the following regulatory provisions :

Regulation (EC) nr 648/2004 (detergents).  
1999/13/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1  
Product belongs to category: P5c

15.2. Chemical safety assessment

No, for instructions on safe handling you see Sections 7 and 8 and the exposure scenario - Annex I of this document.

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**SECTION 16: Other information**

Full text of phrases referred to in Section 3:

H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H225 Highly flammable liquid and vapour.  
H336 May cause drowsiness or dizziness.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

Paragraphs modified from the previous revision:

SECTION 1: Identification of the substance/mixture and of the company/undertaking  
SECTION 3: Composition/information on ingredients  
SECTION 4: First aid measures  
SECTION 5: Firefighting measures  
SECTION 7: Handling and storage  
SECTION 8: Exposure controls/personal protection  
SECTION 9: Physical and chemical properties  
SECTION 10: Stability and reactivity  
SECTION 11: Toxicological information  
SECTION 12: Ecological information  
SECTION 14: Transport information  
SECTION 15: Regulatory information



## Safety Data Sheet

### EMULSIO NATURALE BAGNO E DOCCIA ANTICALCARE - RICARICA

The Classification of product is based on conventional calculation method.

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,  
Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van  
Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 0/10/20/50/100 percent of test population.
LD50:	Lethal dose, for 0/10/20/50/100 percent of test population.
LTE:	Long-term exposure.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE:	Short-term exposure.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWATLV:	Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
WGK:	German Water Hazard Class.



## Safety Data Sheet

### EMULSIO NATURALE BAGNO E DOCCIA ANTICALCARE - RICARICA

ANNEX I

CONSUMER PRODUCT – DETERGENT FOR HARD SURFACES

<b>Title of exposure scenario</b>	
Detergent for general cleaning: Manual process.	
<b>Use description</b>	
Sector Use	SU21 – Consumer use
Product Category	PC35 – Cleaning and washing product (including solvent based products)
<b>Description of activities/process considered on exposure scenario.</b>	
Dilute with water as specified on the label, if necessary.	
Use following the use instruction as specified on the label.	
Leave on.	
Rinse, if necessary.	
<b>Frequency and duration</b>	
Use phase	- 1 time a day for daily cleaning detergents - Periodical for specific detergents
Relevant limit values of ingredients, if available, are stated in section 8 of the SDS.	
<b>Physical appearance and concentration</b>	
Liquid. To dilute or ready to use.	
In section 2 of the SDS of product and on the label the classification of mixture is provided.	
Mixture classification is based on ingredients classification and on chemical/physical properties stated in section 9 of the SDS of product.	
<b>Use conditions</b>	
Room temperature	
Good general ventilation at workplace is sufficient.	
<b>Protection</b>	
See section 8 of the SDS of product to more information on PPE.	Training of worker to use and maintenance of PPE is supposed.
Don't eat or drink, don't smoke.	Avoid contact with damaged skin.
No open flame.	Do not use in combination with other products
Wash hand after use.	
In case of accidental release: dilute with water and dry.	
See section 6 of the SDS in case of accidental release	
Follow use instruction as specified on the label or on technical sheet. Use good occupational hygiene practices as specified in section 7 on the SDS.	
<b>Environmental measures</b>	
See section 6 of the SDS in case of accidental release	
See section 12 of the SDS for ecotoxicological information of mixture and dangerous ingredients.	
See section 13 of the SDS for disposal considerations.	

Note:

SDS: Safety Data Sheet

PPE: Personal Protection Equipment