

## Safety Data Sheet CRISTAL BAR

Safety Data Sheet dated 21/7/2016, version 3

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

1.1. Product identifier

Mixture identification

Trade name: CRISTAL BAR

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

Recommended use:

Detergent for dishwasher.

Professional use (SU22)

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)

 Danger, Skin Corr. 1A, Causes severe skin burns and eye damage.

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

 Warning, STOT SE 3, May cause respiratory irritation.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

Precautionary statements:

P280 Wear eye protection.

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/ shower.

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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.

Special Provisions:

EUH210 Only for professional use. Safety data sheet available on request.

Contents

2-AMINOETHANOL

Product contents:

phosphonates, non-ionic surfactants < 5 %

The product also contains:

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, mixture.

3.2. Mixtures

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

>= 10% - < 12.5% 2-AMINOETHANOL

REACH No.: 01-2119486455-28, Index number: 603-030-00-8, CAS: 141-43-5, EC: 205-483-3

 3.2/1B Skin Corr. 1B H314

4.1/C3 Aquatic Chronic 3 H412

 3.8/3 STOT SE 3 H335

 3.1/4/Oral Acute Tox. 4 H302

 3.1/4/Dermal Acute Tox. 4 H312

 3.1/4/Inhal Acute Tox. 4 H332

>= 3% - < 5% SODIUM P-CUMENESULFONATE

REACH No.: 01-2119489411-37, CAS: 15763-76-5, EC: 239-854-6

 3.3/2 Eye Irrit. 2 H319

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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.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Remove contaminated clothing immediately and dispose off safely.

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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 induce vomiting.

In case of Inhalation:

In case of inhalation, consult a doctor immediately and show him packing or label.

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

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:

Water.

Carbon dioxide (CO<sub>2</sub>).

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.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

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.

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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.

Use localized ventilation system.

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 in area dedicated to alkaly products, keep away from acids and oxygen or peracetic acid based oxidants.

Store in a cool and well ventilated place.

Store away from sunlight.

Do not store in open or unlabeled containers.

Keep away from food, drink and feed.

Incompatible materials:

See section 10.

Instructions as regards storage premises:

Adequately ventilated premises.

#### 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.

2-AMINOETHANOL - CAS: 141-43-5

EU - LTE(8h): 2.5 mg/m<sup>3</sup>, 1 ppm - STE: 7.6 mg/m<sup>3</sup>, 3 ppm - Notes: Bold-type:

Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)

ACGIH - LTE(8h): 3 ppm - STE: 6 ppm - Notes: Eye and skin 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.

2-AMINOETHANOL - CAS: 141-43-5

Worker Industry: 1 mg/kg - Consumer: 0.24 mg/kg - Exposure: Human Dermal -

Frequency: Long Term, systemic effects

Worker Industry: 3.3 mg/m<sup>3</sup> - Consumer: 2 mg/m<sup>3</sup> - Exposure: Human Inhalation -

Frequency: Long Term (repeated)

Consumer: 3.75 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

SODIUM P-CUMENESULFONATE - CAS: 15763-76-5

Worker Industry: 7.6 mg/kg - Consumer: 3.8 mg/kg - Exposure: Human Dermal -

Frequency: Long Term, systemic effects

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Worker Industry: 53.6 mg/m<sup>3</sup> - Consumer: 13.2 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
Consumer: 3.8 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.

2-AMINOETHANOL - CAS: 141-43-5

Target: Marine water - Value: 0.0085 mg/l

Target: Fresh Water - Value: 0.085 mg/l

Target: Air - Value: 0.025 mg/l

Target: Marine water sediments - Value: 0.0425 mg/kg

Target: Microorganisms in sewage treatments - Value: 100 mg/l

SODIUM P-CUMENESULFONATE - CAS: 15763-76-5

Target: Fresh Water - Value: 0.23 mg/l

Target: Microorganisms in sewage treatments - Value: 100 mg/l

Target: Air - Value: 2.3 mg/l

**8.2. Exposure controls**

**Eye protection:**

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

**Protection for skin:**

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton (EN 14605 in case of splashes or EN 13982 in case of dust)

**Protection for hands:**

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber. (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:**

Use respiratory protection where ventilation is insufficient or exposure is prolonged. (eg EN 140 or EN149 type FFP3)

**Thermal Hazards:**

The product is not flammable or 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, yellow	Visual	--
Odour:	Technical	Olfactory	--
Odour threshold:	Evident	Olfactory	--

pH:	12,5 +/- 0,5	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:	> 65 ° C	--	Estimated value on chemical / physical properties of components
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:	1.080 g/ml	Instrumental control	--
Solubility in water:	Total	--	internal tests
Solubility in oil:	None	--	internal tests
Partition coefficient (n-octanol/water):	< 1000	--	Value estimated based on the solubility of the mixture.
Auto-ignition temperature:	Not Relevant	--	Parameter not relevant for the type of product
Decomposition temperature:	Not Relevant	--	Parameter not relevant for the type of product
Viscosity:	< 10 cP	--	Estimated indicative value. Not viscous mixture.
Explosive properties:	Not Relevant	--	Parameter not relevant for product composition.
Oxidizing properties:	Not Relevant	--	Parameter not relevant for product composition.

## 9.2. Other information

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

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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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- 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 alkaly products, keep away from acids and oxygen or peracetic acid based oxidants.  
In normal conditions no dangerous reactions of the mixture  
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 scetion 7.2.
- 10.4. Conditions to avoid  
Different uses than recommended. Do not use in combination with other products. See also 1.2 and 7.2
- 10.5. Incompatible materials  
Acids, oxygen-based oxidants, peracetic acid, organic substances.  
Store in area dedicated to alkaly products, keep away from acids and oxygen based oxidants and peracetic acid.  
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.

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## 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.
- 2-AMINOETHANOL - CAS: 141-43-5
- a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat = 1515 mg/kg  
Test: LD50 - Route: Skin - Species: Rabbit = 2504 mg/kg  
Test: LC50 - Route: Inhalation - Species: Rat > 1.3 mg/l - Duration: 6h
- b) skin corrosion/irritation:  
Test: Skin Corrosive - Route: Skin - Species: Rabbit Positive
- c) serious eye damage/irritation:  
Test: Eye Corrosive - Species: Rabbit Positive
- d) respiratory or skin sensitisation:  
Test: Skin or Resp. Sensitization Negative
- e) germ cell mutagenicity:  
Test: Mutagenesis Negative
- SODIUM P-CUMENESULFONATE - CAS: 15763-76-5
- a) acute toxicity:  
Test: LC50 - Route: Oral - Species: Rat > 7000 mg/kg  
Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg  
Test: LC50 - Route: Inhalation - Species: Rat > 6.41 mg/l - Duration: 4h
- b) skin corrosion/irritation:

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- Test: Skin Irritant Negative
- c) serious eye damage/irritation:
  - Test: Eye Irritant Positive
- d) respiratory or skin sensitisation:
  - Test: Skin Sensitization Negative
- e) germ cell mutagenicity:
  - Test: Mutagenesis Negative
- f) carcinogenicity:
  - Test: NOAEL = 240 mg/kg bw/d
- i) STOT-repeated exposure:
  - Test: NOAEL - Route: Oral > 763 mg/kg bw/d
  - Test: NOAEL - Route: Skin > 440 mg/kg bw/d

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.

2-AMINOETHANOL - CAS: 141-43-5

#### a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 349 mg/l - Duration h: 96 - Notes: Cyprinus carpio

Endpoint: LC50 - Species: Fish = 170 mg/l - Duration h: 96 - Notes: Carassius auratus

Endpoint: EC50 - Species: Daphnia = 65 mg/l - Duration h: 48 - Notes: Daphnia magna

Endpoint: EC50 - Species: Algae = 2.5 mg/l - Duration h: 72 - Notes: Selenastrum capricornutum

Endpoint: EC50 - Species: Algae = 22 mg/l - Duration h: 72 - Notes: Scenedesmus subspicatus

Endpoint: NOEC - Species: Algae = 1 mg/l - Duration h: 72 - Notes: Selenastrum capricornutum

#### b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish = 1.2 mg/l - Duration h: 720 - Notes: Oryzias latipes

Endpoint: NOEC - Species: Daphnia = 0.85 mg/l - Duration h: 504 - Notes: Daphnia magna

#### c) Bacteria toxicity:

Endpoint: EC50 - Species: Microorganisms / Effect on activated sludge: = 110 mg/l -

Duration h: 16 - Notes: Pseudomonas putida

SODIUM P-CUMENESULFONATE - CAS: 15763-76-5

#### a) Aquatic acute toxicity:



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Endpoint: LC50 - Species: Fish = 1000 mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss

Endpoint: EC50 - Species: Algae > 230 mg/l - Duration h: 96 - Notes: Selenastrum capricornutum

Endpoint: EC50 - Species: Daphnia = 1000 mg/l - Duration h: 48 - Notes: Daphnia Magna

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Algae = 31 mg/l - Duration h: 96

c) Bacteria toxicity:

Endpoint: NOEC - Species: Microorganisms / Effect on activated sludge: = 1000 mg/l - Duration h: 3

### 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.

2-AMINOETHANOL - CAS: 141-43-5

Biodegradability: Readily biodegradable - OECD 301A - Duration: 21 days - %: >90%

SODIUM P-CUMENESULFONATE - CAS: 15763-76-5

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.

2-AMINOETHANOL - CAS: 141-43-5

Bioaccumulation: Slightly bioaccumulative

### 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.

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## 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

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## SECTION 14: Transport information



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- 14.1. UN number  
ADR-UN Number: 1760  
IATA-UN Number: 1760  
IMDG-UN Number: 1760
- 14.2. UN proper shipping name  
ADR-Shipping Name: CORROSIVE LIQUID, N.O.S. (2-aminoethanol)  
IATA-Shipping Name: CORROSIVE LIQUID, N.O.S. (2-aminoethanol)  
IMDG-Shipping Name: CORROSIVE LIQUID, N.O.S. (2-aminoethanol)
- 14.3. Transport hazard class(es)  
ADR-Class: 8  
ADR-Label 8  
ADR - Hazard identification number: 80  
IATA-Class/Division: 8  
IATA-Label: 8  
IMDG-Class/Division: 8  
IMDG-Label 8
- 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  
ADR-Tunnel Restriction Code: E  
IATA-Passenger Aircraft: 852  
IATA-Subsidiary risks: -  
IATA-Cargo Aircraft: 856  
IATA-S.P.: -  
IATA-ERG: 8L  
IMDG-S.P.: 223 274  
IMDG-EmS: F-A , S-B  
IMDG-Subsidiary risks: -  
IMDG-Storage category: Category A  
IMDG-Storage notes: SW2  
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)



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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

None

15.2. Chemical safety assessment

No, for instructions on safe mangling 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:

H314 Causes severe skin burns and eye damage.

H412 Harmful to aquatic life with long lasting effects.

H335 May cause respiratory irritation.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H319 Causes serious eye irritation.

Paragraphs modified from the previous revision:

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

The classification of the 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.



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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.
EC0/10/20/50/100:	Effective concentration, for 0/10/20/50/100 percent of test population.
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.
LC0/10/20/50/100:	Lethal concentration, for 0/10/20/50/100 percent of test population.
LD0/10/20/50/100:	Lethal dose, for 0/10/20/50/100 percent of test population.
LTE:	Long-term exposure.
NOEC:	No Observed Effect Concentration
NOAEL(R)/N	No Observed Adverse Effect Level(Repeated)/Concentration
OAEC:	
OECD:	Organisation for Economic Co-operation and Development
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.

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ANNEX I  
PROFESSIONAL PRODUCT – LAUNDRY or AUTOMATIC DISHWASH DETERGENT

<b>Title of exposure scenario</b>	
Detergent for general cleaning: Manual process.	
<b>Use description</b>	
Sector Use	SU22 – Professional use
Product Category	PC35 – Cleaning and washing product (including solvent based products)
<b>Description of activities/process considered on exposure scenario.</b>	
Use the recommended dose according to water hardness and degree of soiling, following the instructions on the label or technical data sheet.	
<b>Frequency and duration</b>	
Use phase	1 or more times a day. Duration depends on washing program.
Relevant limit values of ingredients, if available, are stated in section 8 of the SDS.	
<b>Physical appearance and concentration</b>	
Liquid or powder. To dilute.	
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 /for recommended washing temperature see label or tecnica sheet.	
<b>Protezione</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.	
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