

# Safety data sheet

## BOAT CLEANER

According to Regulation (EC) 1907/2006 – Regulation (EC) 878/2020

Data of issue 26/09/2019

Printing date 04/01/2023

Revision 5 del 04/01/2023

### **SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

#### **1.1 Product identifier**

Product name: BOAT CLEANER  
Commercial code: 40.102  
UFI code: WX1K-13DX-D00X-POH7

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

Detergent  
Sectors of use:  
Professional use [SU22]  
Product categories:  
Washing and cleaning products (including solvent-based products)

Uses advised against  
Do not use for uses other than those indicated

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

Company name: Silpar TK snc  
Address: Via Rosa Luxemburg 12/14  
10093 - Collegno (TO)  
Telephone: +39 011 7791177  
Fax: +39 011 7791177  
Email: [sicurezza@silpartkline.com](mailto:sicurezza@silpartkline.com)

#### **1.4 Emergency telephone number**

CAVp "Osp. Pediatrico Bambino Gesù - Roma	Tel. +39 06 68593726
Az. Osp. Univ. Foggia	Tel. +39 0881 732326
Az. Osp. "A. Cardarelli" - Napoli	Tel. +39 081 7472870
CAV Policlinico "Umberto I" - Roma	Tel. +39 06 49978000
CAV Policlinico "A. Gemelli" - Roma	Tel. +39 06 3054343
Az. Osp. "Careggi" U.O. Tossicologia Medica - Firenze	Tel. +39 055 7947819
CAV Centro Nazionale di Informazione Tossicologica - Pavia	Tel. +39 0382 24444
Osp. Niguarda Ca' Granda - Milano	Tel. +39 02 66101029
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Azienda Ospedaliera Universitaria Integrata Verona	Tel. +39 800 011858

### **SECTION 2: HAZARDS IDENTIFICATION**

#### **2.1 Classification of the substance or mixture**

**Classification according to Reg. EU n°1272/2008 [CLP]**

Skin Corr. 1C, H314

Eye Dam. 1, H318

#### **2.2 Label elements**

Hazard pictograms:



Signal word: Danger

Hazard statements: H314 Causes severe skin burns and eye damage

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EUH071 Corrosive to the respiratory tract'

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### Precautionary statements:

- P260 Do not breathe dust/fume/gas/mist/ vapours/spray.
- P264 Wash hands thoroughly after handling.
- P280 Wear protective gloves/ protective clothing / eye protection / face protection.
- P310 Immediately call a POISON CENTER/ doctor
- P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/ national/international regulations

### Contains:

Benzenesulfonic, 4-C10-13-sec-alkyl derivatives, Alcohols, C12-14, ethoxylates, sulphates, Sodium salts, 2,2', 2''-nitrilotriethanol.

### Regulation (EC) No. 648/2004:

5% <15% Anionic surfactants, <5% Perfumes, Non-ionic surfactants, Citral, (R)-p-mentha-1,8-diene

### 2.3 Other hazards

Substance vPvB: None - Substance PBT: None

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

N.A.

### 3.2 Mixtures

1.CAS 2.N° EC 3.N° Index 4.N° REACH	Name	Weight (%)	Classification 1272/2008 (CLP)
1. 85536-14-7 2. 287-494-3 3. Non Disponibile 4. 01-2119490234-40-XXXX	Benzenesulfonic, 4-C10-13-sec-alkyl derivatives	5-10	Acute Tox. 4, H302; Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Chronic 3, H412
1. 68891-38-3 2. 500-234-8 3. Non Disponibile 4. 01-2119488639-16-XXXX	Alcohols, C12-14, ethoxylates, sulphates, sodium salts	3-5	Skin Irrit. 2, H315; Eye Dam. 1, H318; Aquatic Chronic 3, H412
1. 102-71-6 2. 203-049-8 3. Non Disponibile 4. 01-2119486482-31-XXXX	2,2',2''-nitrilotrietanolo	1-2	Not Classified

The full text of the H phrases is given in section 16 of the safety data sheet

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

- Eye contact Remove contact lenses, if present. Wash immediately with plenty of water for at least 30 minutes, opening the eyelids fully. If problem persists, seek medical advice.
- Skin contact Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.
- Ingestion Get medical advice/attention. Do not induce vomiting. Do not administer anything not



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Inhalation explicitly authorised by a doctor.  
Remove to open air. Get medical advice/attention immediately.

- 4.2 Most important symptoms and effects, both acute and delayed**  
For symptoms and effects caused by the contained substances, see chap. 11.
- 4.3 Indication of any immediate medical attention and special treatment needed**  
Treat symptomatically.

### **SECTION 5: FIREFIGHTING MEASURES**

- 5.1 Extinguishing media**  
SUITABLE EXTINGUISHING EQUIPMENT  
Extinguishing substances are: carbon dioxide, foam, chemical powder.  
UNSUITABLE EXTINGUISHING EQUIPMENT  
Do not use jets of water.
- 5.2 Special hazards arising from the substance or mixture**  
HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE  
Do not breathe combustion products.
- 5.3 Advice for firefighters**  
GENERAL INFORMATION  
Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.  
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS  
Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

- 6.1 Personal precautions, protective equipment and emergency procedures**  
Block the leakage if there is no hazard.  
Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.
- 6.2 Environmental precautions**  
The product must not penetrate into the sewer system or come into contact with surface water or ground water.
- 6.3 Methods and material for containment and cleaning up**  
Absorb the remainder with inert absorbent material. Make sure the leakage site is well aired. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.
- 6.4 Reference to other sections**  
Refer to sections 8 and 13.

### **SECTION 7: HANDLING AND STORAGE**

- 7.1 Precautions for safe handling**  
Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.
- 7.2 Conditions for safe storage, including any incompatibilities**

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Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight.  
Keep containers away from any incompatible materials, see section 10 for details.

#### 7.3 Specific end use(s)

See section 1.2

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

#### 8.1 Control parameters

##### Occupational Exposure Limits

##### **2,2', 2''- nitrilotriethanol**

EU Consolidated List of Indicative Occupational Exposure Values (VLIIEP)

TWA: 5 mg / m<sup>3</sup>

##### Derived No effect level (DNEL)

##### **Benzenesulfonic, 4-C10-13-sec-alkyl derivatives**

Dermal 170 mg / m<sup>3</sup> (Systemic, chronic)

Inhalation 12 mg / m<sup>3</sup> (Systemic, chronic)\*

Inhalation 3 mg / m<sup>3</sup> (Local, chronic)\*

Dermal 85 mg / kg bw / day (Systemic, chronic)\*

Inhalation 3 mg / m<sup>3</sup> (Systemic, chronic)\*

Oral 0.425 mg / kg bw / day (Systemic, chronic)\*

##### **Alcohols, C12-14, ethoxylates, sulphates, sodium salts**

Dermal 2 750 mg / kg bw / day (Systemic, chronic)

Inhalation 175 mg / m<sup>3</sup> (Systemic, chronic)

Dermal 132 µg / cm<sup>2</sup> (Local, chronic)

Dermal 1 650 mg / kg bw / day (Systemic, chronic)\*

Inhalation 52 mg / m<sup>3</sup> (Systemic, chronic)\*

Oral 15 mg / kg bw / day (Systemic, chronic)\*

Dermal 79 µg / cm<sup>2</sup> (Local, chronic)\*

##### **2,2', 2''- nitrilotriethanol**

Dermal 3.1 mg / kg bw / day (Systemic, chronic)\*

Inhalation 1.25 mg / m<sup>3</sup> (Systemic, chronic)\*

Oral 13 mg / kg bw / day (Systemic, chronic)\*

Dermal 6.3 mg / kg bw / day (Systemic, chronic)

Inhalation 5 mg / m<sup>3</sup> (Systemic, chronic)

\* Values that refer to the population

##### Predicted No Effect Concentration (PNEC)

##### **Benzenesulfonic, 4-C10-13-sec-alkyl derivatives**

0.268 mg / L (Freshwater)

0.027 mg / L (Water - intermittent release)

0.017 mg / L (Water (Marine))

8.1 mg / kg sediment dw (Sediment (Fresh water))

6.8 mg / kg sediment dw (Sediments (Marine))

35 mg / kg soil dw (Soil)

3.43 mg / L (STP)

##### **Alcohols, C12-14, ethoxylates, sulphates, sodium salts**

0.24 mg / L (Freshwater)

0.024 mg / L (Water - intermittent release)

0.071 mg / L (Water (Marine))

0.917 mg / kg sediment dw (Sediments (Freshwater))

0.092 mg / kg sediment dw (Sediments (Marine))

7.5 mg / kg soil dw (Soil)

10 g / L (STP)

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### 2,2', 2''- nitrilotriethanol

- 0.32 mg / L (Freshwater)
- 0.032 mg / L (Water - intermittent release)
- 5.12 mg / L (Water (Marine))
- 1.7 mg / kg sediment dw (Sediment (Freshwater))
- 0.17 mg / kg sediment dw (Sediments (Marine))
- 0.151 mg / kg soil dw (Soil)
- 10 mg / L (STP)

### 8.2 Exposure controls

- Hands protection** Protect hands with category III work gloves (ref. Standard EN 374).  
For the final choice of the material of the work gloves it is necessary to consider: compatibility, degradation, breakage time and permeation.  
In the case of preparations, the resistance of work gloves to chemical agents must be checked before use as it is not foreseeable. Gloves have a wear time that depends on the duration and method of use.
- Respiratory protection** If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, a mask with a type AX filter combined with a type P filter should be worn (see standard EN 14387). Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.  
The product must be used in highly ventilated environments and in the presence of strong localized aspirations, otherwise use the personal protective equipment indicated.
- Eye and face protection** Wear safety glasses with side shields (see standard EN 166).
- Body and skin protection:** Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344).

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance:	Liquid
Colour:	Red
Odour:	Citrus / Lemon
Odour threshold:	N.A.
pH:	7
Melting point/freezing point:	N.A.
Initial boiling point and boiling range:	N.A.
Flash point:	N.A.
Evaporation rate:	N.A.
Flammability (solid, gas):	N.A.
Upper/lower flammability or explosive limits:	N.A.
Vapour pressure:	N.A.
Vapour density (Air=1):	N.A.
Relative density (Water=1):	1.05
Solubility(ies):	Soluble
Partition coefficient: n-octanol/water:	N.A.
Auto-ignition temperature (°C):	N.A.
Decomposition temperature:	N.A.
Viscosity:	N.A.
Explosive properties:	Non-explosive product
Oxidising properties:	N.A.

### 9.2 Other information

Information not available

## SECTION 10: STABILITY AND REACTIVITY



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### 10.1 Reactivity

Benzenesulfonic, 4-C10-13-sec-alkyl derivatives:  
Reaction with alkali. Reaction with alkaline earth metals.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Information not available

### 10.4 Conditions to avoid

Benzenesulfonic, 4-C10-13-sec-alkyl derivatives:  
Keep away from open flames, sparks and other sources of ignition.

### 10.5 Incompatible materials

It can generate flammable gases in contact with elementary metals, nitrides, inorganic sulphides, strong reducing agents.  
It can generate toxic gases in contact with inorganic sulphides, strong reducing agents.

### 10.6 Hazardous decomposition products

It does not decompose when used for its intended uses.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

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

Unless otherwise specified, the data required by Regulation (EU) 878/2020 indicated below are to be understood N.A.:

(a) acute toxicity;

Benzenesulfonic, 4-C10-13-sec-alkyl derivatives

Dermal (rat) LD50: > 2000 mg / kg

Oral (Rat) LD50; ~ 1470 mg / kg

Alcohols, C12-14, ethoxylates, sulphates, sodium salts

Dermal (rat) LD50: > = 2000 mg / kg

Oral (Rat) LD50; 4100 mg / kg

2,2', 2''- nitrilotriethanol

Oral (Rat) LD50; 6400 mg / kg

Dermal (Rabbit) LD50: > 2000 mg / kg

Inhalation (Rat) LC0; 1.8 mg / kg

Toxicity after repeated use (subacute, subchronic, chronic)

2,2', 2''- nitrilotriethanol

Oral (Rat) NOAEL (C): 1000 mg / kg bw / day 91 days

Inhalation (Rat) NOAEL (C): 0.5 mg / l 28 days

(b) skin corrosion/irritation;

Benzenesulfonic, 4-C10-13-sec-alkyl derivatives

Parameter: Primary skin irritation (Benzenesulfonic, 4-C10-13-sec-alkyl derivatives; CAS No.: 85536-14-7)

Species: Rabbit

Result: Strongly irritating

Alcohols, C12-14, ethoxylates, sulphates, sodium salts

Skin irritation (OECD 404): irritant (Determined in rabbit)

2,2', 2''- nitrilotriethanol

Causes serious eye damage. Causes skin irritation.

(c) serious eye damage/irritation;

Benzenesulfonic, 4-C10-13-sec-alkyl derivatives

Parameter: Eye irritation (Benzenesulfonic, 4-C10-13-sec-alkyl derivatives; CAS No.: 85536-14-7)

Species: Rabbit

Result: Moderately irritating

Alcohols, C12-14, ethoxylates, sulphates, sodium salts

Eye irritation (OECD 405): strongly irritating (Determined on rabbit eyes)

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(d) respiratory or skin sensitisation;

Benzenesulfonic, 4-C10-13-sec-alkyl derivatives:

It does not cause sensitization.

In case of skin contact

Sensitization: (Guinea Pig): negative

Alcohols, C12-14, ethoxylates, sulphates, sodium salts

Tests on animals showed no sensitizing action.

Experimental / calculated data:

Buehler guinea pig test: non-sensitizing (OECD - guideline 406)

(e) germ cell mutagenicity;

(f) carcinogenicity;

2,2', 2''- nitrilotriethanol

NOAEL (C)(Female mouse): <= 100 mg / kg bw / day

(g) reproductive toxicity;

Benzenesulfonic, 4-C10-13-sec-alkyl derivatives:

Parameter: LOAEL (C)(Benzenesulfonic, 4-C10-13-sec-alkyl derivatives; CAS No. : 85536-14-7)

Route of exposure: Oral route

Species: Rat

Effective dose: 145 mg / kg bw / day

Possible adverse effects on developmental toxicity

Parameter: NOAEL (C)(Benzenesulfonic, 4-C10-13-sec-alkyl derivatives; CAS No. : 85536-14-7)

Route of exposure: Oral route

Species: Rat

Effective dose: 85 mg / kg bw / day

Parameter: NOAEL (Fetal Development)(Benzenesulfonic, 4-C10-13-sec-alkyl derivatives; CAS No. : 85536-14-7)

Route of exposure: Mouse

Effective dose: 300 mg / kg bw / day

Method: Read across

Developmental toxicity / teratogenicity

One Generation Reproductive Toxicity Essay

Parameter: NOAEL (C)(Benzenesulfonic, 4-C10-13-sec-alkyl derivatives; CAS No. : 85536-14-7)

Route of exposure: Rat

Effective dose: 350 mg / kg bw / day

Method: Read across

Two-Generation Reproductive Toxicity Assay

Parameter: Two-generation reproductive toxicity test (Benzenesulfonic, 4-C10-13-sec-alkyl derivatives; CAS No. : 85536-14-7)

Route of exposure: Rat

Effective dose: 350 mg / kg bw / day

Method: Read across

Alcohols, C12-14, ethoxylates, sulphates, sodium salts

Parameter: NOAEL (C)(Alcohols, C12-14, ethoxylates, sulphates, sodium salts; CAS No. : 68891-38-3)

Route of exposure: Rat

Effective dose:> 300 mg / kg bw / day

Parameter: NOAEL (C)(2,2', 2''-NITRILOTRIETHANOL; CAS No. : 102-71-6)

Route of exposure: Rat

Effective dose: 1000 mg / kg bw / day

Exposure time: 9 week (s)

(h) STOT-single exposure;

(i) STOT-repeated exposure;

(j) aspiration hazard.

#### 11.2 Information on other hazards

Information not available

#### **SECTION 12: ECOLOGICAL INFORMATION**

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### 12.1 Toxicity

Endpoint	Duration	Species	Value
<b>benzenesulfonic acid, -4-C10-13-sec-alkyl-derivatives</b>			
LC50	96h	lepomis macrochirus	1.67mg/l
NOEC	28g	lepomis macrochirus	1mg/l
EC50	48h	Daphnia magna	2.9mg/l
ErC50	72h	Scenedesmus subspicatus	47,3mg/l
<b>Alcohols, C12-14, ethoxylates, sulphates, sodium salts</b>			
LC50	96h	Danio Rerio	7.1mg/l
EC50	48h	Daphnia magna	7.2mg/l
EC50	72h	Scenedesmus subspicatus	27mg/l
<b>2,2', 2''- nitrilotriethanol</b>			
LC50	96h	Pimephales promelas	11800mg/l
EC50	48h	Ceriodaphnia dubia	609,88 mg/l

### 12.2 Persistence and degradability

Parameter: Biodegradation (Benzenesulfonic, 4-C10-13-sec-alkyl derivatives; CAS No. : 85536-14-7)  
 Inoculum: Biodegradation  
 Effective dose:> 70%  
 Method: OECD 301A / ISO 7827 / EEC 92/69 / V, C.4-A  
 Easily biodegradable.

### 12.3 Bioaccumulative potential

Benzenesulfonic, 4-C10-13-sec-alkyl derivatives:  
 Low bioaccumulation.

### 12.4 Mobility in soil

Benzenesulfonic, 4-C10-13-sec-alkyl derivatives:  
 The product has very high mobility potential.

### 12.5 Results of PBT and vPvB assessment

On the basis of available data, the product does not contain PBT or vPvB substances in percentage greater than 0.1%.

### 12.6 Endocrine disrupting properties

No data available

### 12.7 Other adverse effects

No data available

## **SECTION 13: DISPOSAL CONSIDERATIONS**

### 13.1 Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations. Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. Avoid littering. Do not contaminate soil, sewers and waterways. Waste transportation may be subject to ADR restrictions. CONTAMINATED PACKAGING  
 Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

## **SECTION 14: TRANSPORT INFORMATION**

### 14.1 UN number or ID number

ADR/RID/ADN ONU 1760  
 IMDG-Code ONU 1760  
 ICAO-TI ONU 1760

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ADR exemption because the following characteristics are met:

Combined packaging: internal packaging 5 L package 30 Kg

Internal packaging arranged in trays with shrink or stretch film: internal packaging 5 L package 20 Kg

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#### 14.2 UN proper shipping name

ADR/RID/ADN LIQUIDO CORROSIVO, N.A.S. (Benzenesulfonic, 4-C10-13-sec-alkyl derivatives)

IMDG-Code CORROSIVE LIQUID, N.O.S. (Benzenesulfonic, 4-C10-13-sec-alkyl derivatives)

ICAO-TI Corrosive liquid, n.o.s (Benzenesulfonic, 4-C10-13-sec-alkyl derivatives)

#### 14.3 Transport hazard class(es)

ADR / RID / ADN, IMDG, IATA

Class 8 Corrosive liquid

Label 8



#### 14.4 Packing group

ADR/RID/IMDG/ICAO-IATA: III

#### 14.5 Environmental hazards

Marine pollutant: No

#### 14.6 Special precautions for user

ADR / RID / ADN

Limited quantities (LQ) 5L

Excepted quantities (EQ) Code: E1

Maximum net quantity for internal packaging: 30 ml

Maximum net quantity for outer packaging: 1000 ml

IMDG

Limited quantities (LQ) 5L

Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity for outer packaging: 1000 ml

#### 14.7 Maritime transport in bulk according to IMO instruments

N.A.

### **SECTION 15: REGULATORY INFORMATION**

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.

Seveso Category - Directive 2012/18/EC:

None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.

Point 3

Substances in Candidate List (Art. 59 REACH).

None.

Substances subject to authorisation (Annex XIV REACH).

None.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None.

Substances subject to the Rotterdam Convention:

None.



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#### Substances subject to the Stockholm Convention:

None.

#### Healthcare controls.

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

Regulation (EC) No. 648/2004

Ingredients according to Regulation (EC) No. 648/2004

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

#### Regulation (EU) No. 1357/2014 - waste:

HP8 - Corrosive

## 15.2 Chemical safety assessment

A chemical safety assessment has been carried out.

### **SECTION 16: OTHER INFORMATION**

#### **Full text of H codes mentioned in sections 2 - 3**

- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage
- H315 Causes skin irritation
- H318 Causes serious eye damage
- H412 Harmful to aquatic life with long lasting effects

#### **LEGEND:**

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation.

#### **Classification and procedure used to derive it according to regulation (EC) 1272/2008 [CLP] in relation to mixture:**

Skin Corr. 1C, H314 - Calculation method



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Eye Dam. 1, H318 – Calculation method

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### GENERAL BIBLIOGRAPHY

Regulation (EU) 1907/2006 of the European Parliament (REACH)  
Regulation (EU) 1272/2008 of the European Parliament (CLP)  
Regulation (EU) 2020/878 (Annex II REACH Regulation)  
Regulation (EC) 790/2009 of the European Parliament (I Atp. CLP)  
Regulation (EU) 286/2011 of the European Parliament (II Atp. CLP)  
Regulation (EU) 618/2012 of the European Parliament (III Atp. CLP)  
Regulation (EU) 487/2013 of the European Parliament (IV Atp. CLP)  
Regulation (EU) 944/2013 of the European Parliament (V Atp. CLP)  
Regulation (EU) 605/2014 of the European Parliament (VI Atp. CLP)  
Regulation (EU) 2015/1221 of the European Parliament (VII Atp. CLP)  
Regulation (EU) 2016/918 of the European Parliament (VIII Atp. CLP)  
Regulation (EU) 2016/1179 (IX Atp. CLP)  
Regulation (EU) 2017/776 (X Atp. CLP)  
Regulation (EU) 2018/669 (XI Atp. CLP)  
Regulation (EU) 2019/521 (XII Atp. CLP)  
Delegated Regulation (EU) 2018/1480 (XIII Atp. CLP)  
Regulation (EU) 2019/1148  
Delegated Regulation (EU) 2020/217 (XIV Atp. CLP)  
Delegated Regulation (EU) 2020/1182 (XV Atp. CLP)  
Delegated Regulation (EU) 2021/643 (XVI Atp. CLP)  
Delegated Regulation (EU) 2021/849 (XVII Atp. CLP)  
Delegated Regulation (EU) 2022/692 (XVIII Atp. CLP)  
Regulation (EU) 2020/878 of the European Parliament

The Merck Index. - 10th Edition  
Handling Chemical Safety  
INRS - Fiche Toxicologique (toxicological sheet)  
Patty - Industrial Hygiene and Toxicology  
N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition  
ECHA website

#### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

#### Difference with the previous version:

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