

### Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

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

##### 1.1. Product identifier

Code: 012A291102A  
Product name: FM 50 ANTICALCARE SOFT  
UFI : 3PN2-C03K-F00Q-P0E5

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

Intended use: Descaling detergent for washable surfaces

| Identified Uses                           | Industrial | Professional | Consumer |
|-------------------------------------------|------------|--------------|----------|
| Descaling detergent for washable surfaces | -          | ✓            | -        |

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

Name: ALLEGRINI S.P.A.  
Full address: Vicolo Salvo D'Acquisto, 2  
District and Country: 24050 Grassobbio (BG)  
Italy  
Tel.: +39 035 4242111  
Fax: +39 035 526588  
e-mail address of the competent person responsible for the Safety Data Sheet: msds@allegrini.com

##### 1.4. Emergency telephone number

For urgent inquiries refer to: Allegrini SpA : Tel. +39 035 4242111 Mon - Fri 8.00 - 17.00 GMT +1

#### SECTION 2. Hazards identification

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

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

|                                |      |                                          |
|--------------------------------|------|------------------------------------------|
| Flammable liquid, category 3   | H226 | Flammable liquid and vapour.             |
| Skin corrosion, category 1A    | H314 | Causes severe skin burns and eye damage. |
| Serious eye damage, category 1 | H318 | Causes serious eye damage.               |

##### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words: Danger

Hazard statements: H226 Flammable liquid and vapour.

ALLEGRINI S.P.A.

012A291102A - FM 50 ANTICALCARE SOFT

Revision no.1

Revision date 09/05/2024

New emission

Printed on 09/05/2024

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EN

SECTION 2. Hazards identification ... / >>

H314

Causes severe skin burns and eye damage.

Precautionary statements:

P210

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

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P303+P361+P353

IN CASE OF CONTACT WITH SKIN (or hair): immediately take off all contaminated clothing. Rinse the skin [or take a shower].

P280

Wear protective gloves/ protective clothing / eye protection / face protection.

P310

Immediately call a POISON CENTER/doctor.

P260

Do not breathe vapours/sprays.

Contains:

Tetrasodium ethylene diamine tetraacetate

Alcohols, C12-15, branched and linear, ethoxylated

Ingredients (Regulation 648/2004)

Less than 5%

Anionic surfactants, Non-ionic surfactants

5% or over but less than 15%

EDTA (ethylenediaminetetraacetic acid)

Perfumes

Butylphenyl Methylpropional, Hexyl Cinnamaldehyde

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

SECTION 3. Composition/information on ingredients

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

Identification

x = Conc. %

Classification (EC) 1272/2008 (CLP)

Ethanol

INDEX

603-002-00-5

10,5 ≤ x < 12

EC

200-578-6

Flam. Liq. 2 H225, Eye Irrit. 2 H319

CAS

64-17-5

Eye Irrit. 2 H319: ≥ 50%

REACH Reg.

01-2119457610-43

Tetrasodium ethylene diamine tetraacetate

INDEX

607-428-00-2

8,5 ≤ x < 10

EC

200-573-9

Acute Tox. 4 H302, Acute Tox. 4 H332, STOT RE 2 H373, Eye Dam. 1 H318

CAS

64-02-8

ATE Oral: 500 mg/kg, ATE Inhalation mists/powders: 1,5 mg/l

REACH Reg.

01-2119486762-27

Sulfonic acids, C14-17-sec-alkane, sodium salts

INDEX

5 ≤ x < 6

EC

307-055-2

Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Chronic 3 H412

CAS

97489-15-1

Eye Dam. 1 H318: ≥ 15%, Eye Irrit. 2 H319: ≥ 10% - < 15%

REACH Reg.

01-2119489924-20

ATE Oral: 500 mg/kg

Tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate

INDEX

4,5 ≤ x < 5

EC

257-573-7

Met. Corr. 1 H290

CAS

51981-21-6

REACH Reg.

01-2119493601-38

EPY 11.7.1 - SDS 1004.14

### SECTION 3. Composition/information on ingredients ... / >>

#### Isopropanol

INDEX 603-117-00-0 4 ≤ x < 4,5  
EC 200-661-7  
CAS 67-63-0  
REACH Reg. 01-2119457558-25

Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336

#### Sodium cumenesulphonate

INDEX 4 ≤ x < 4,5  
EC 239-854-6  
CAS 15763-76-5  
REACH Reg. 01-2119489411-37

Eye Irrit. 2 H319

#### Alcohols, C12-15, branched and linear, ethoxylated

INDEX 3 ≤ x < 3,5  
EC  
CAS 106232-83-1

Acute Tox. 4 H302, Eye Dam. 1 H318, Aquatic Chronic 3 H412  
LD50 Oral: >300 mg/kg

#### Methyl ethyl ketone

INDEX 606-002-00-3 0,05 ≤ x < 0,1  
EC 201-159-0  
CAS 78-93-3  
REACH Reg. 01-2119457290-43

Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066

The full wording of hazard (H) phrases is given in section 16 of the sheet.

### SECTION 4. First aid measures

#### 4.1. Description of first aid measures

In case of doubt or in the presence of symptoms contact a doctor and show him this document.

In case of more severe symptoms, ask for immediate medical aid.

EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Take off immediately all contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice/attention. Avoid further contact with contaminated clothing.

INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Rinse your mouth with running water. Do not give anything by mouth to an unconscious person. Get medical advice/attention.

INHALATION: Remove victim to fresh air, away from the accident scene. In the event of respiratory symptoms (coughing, wheezing, breathing difficulty, asthma) keep the victim in a comfortable position for breathing. If necessary administer oxygen. If the subject stops breathing, administer artificial respiration. Get medical advice/attention.

#### Rescuer protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

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

Specific information on symptoms and effects caused by the product are unknown.

DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

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

Immediately call a POISON CENTER/doctor.

Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye wash.

### SECTION 5. Firefighting measures

#### 5.1. Extinguishing media

##### SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

##### UNSUITABLE EXTINGUISHING EQUIPMENT

### SECTION 5. Firefighting measures ... / >>

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

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

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. 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.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

#### 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

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

### SECTION 7. Handling and storage

#### 7.1. Precautions for safe handling

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised.

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

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition.

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

Information not available

### SECTION 8. Exposure controls/personal protection

#### 8.1. Control parameters

Regulatory references:

|     |                 |                                                                                                                                                                                                                                                                                                                                                        |
|-----|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BGR | България        | НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари 2020г.)                                                                                                                                                                                         |
| CZE | Česká Republika | NAŘÍZENÍ VLÁDY ze dne 10. května 2021, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci                                                                                                                                                                                                              |
| DEU | Deutschland     | Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe Mitteilung 58                                                                                                                                                                                                          |
| ESP | España          | Límites de exposición profesional para agentes químicos en España 2023                                                                                                                                                                                                                                                                                 |
| EST | Eesti           | Ohtlike kemikaalide ja neid sisaldavate materjalide kasutamise töötervishoiu ja tööohutuse nõuded ning töökeskonna keemiliste ohutegurite piirnormid [RT I, 21.12.2022, 14]                                                                                                                                                                            |
| FRA | France          | Valeurs limites d'exposition professionnelle aux agents chimiques en FranceDécret n° 2021-1849 du 28 décembre 2021                                                                                                                                                                                                                                     |
| GRC | Ελλάδα          | Π.Δ. 26/2020 (ΦΕΚ 50/Α' 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ "σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιογόνους παράγοντες κατά την εργασία"» |
| HUN | Magyarország    | Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelethe a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről                                                                                                                                                                   |
| HRV | Hrvatska        | Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)                                                                                                                                                         |
| ITA | Italia          | Decreto Legislativo 9 Aprile 2008, n.81                                                                                                                                                                                                                                                                                                                |
| LVA | Latvija         | Grozījumi Ministru kabineta 2007. gada 15. maija noteikumos Nr. 325 "Darba aizsardzības prasības saskaņā ar ķīmiskajām vielām darba vietās" (prot. Nr. 32 18. §; prot. Nr. 1 22. §)                                                                                                                                                                    |
| PRT | Portugal        | Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos                                                                |
| POL | Polska          | Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy                                                                                                                                    |
| ROU | România         | Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006                                                                                                                                                                                          |
| SWE | Sverige         | Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1)                                                                                                                                                                                                                                        |
| SVK | Slovensko       | NARIADENIE VLÁDY Slovenskej republiky z 12. augusta 2020, ktorým sa mení a dopĺňa nariadenie vlády Slovenskej republiky č. 356/2006 Z. z. o ochrane zdravia zamestnancov pred rizikami súvisiacimi s expozíciou karcinogénnym a mutagénnym faktorom pri práci v znení neskorších predpisov                                                             |
| SVN | Slovenija       | Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)                                                                                                                                                                |
| GBR | United Kingdom  | EH40/2005 Workplace exposure limits (Fourth Edition 2020)                                                                                                                                                                                                                                                                                              |
| EU  | OEL EU          | Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.                                                             |
|     | TLV-ACGIH       | ACGIH 2023                                                                                                                                                                                                                                                                                                                                             |

#### Tetrasodium ethylene diamine tetraacetate

##### Predicted no-effect concentration - PNEC

|                                              |      |       |
|----------------------------------------------|------|-------|
| Normal value in fresh water                  | 2,2  | mg/l  |
| Normal value in marine water                 | 0,22 | mg/l  |
| Normal value for water, intermittent release | 1,2  | mg/l  |
| Normal value of STP microorganisms           | 43   | mg/l  |
| Normal value for the terrestrial compartment | 0,72 | mg/kg |

##### Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers |          | Effects on workers |              |            |          |              |
|-------------------|----------------------|----------|--------------------|--------------|------------|----------|--------------|
|                   | Acute                | Acute    | Chronic            | Chronic      | Acute      | Acute    | Chronic      |
|                   | local                | systemic | local              | systemic     | local      | systemic | local        |
| Oral              |                      |          |                    | 25<br>mg/kg  |            |          |              |
| Inhalation        | 1,2<br>mg/m3         |          |                    | 0,6<br>mg/m3 | 3<br>mg/m3 |          | 1,5<br>mg/m3 |

### SECTION 8. Exposure controls/personal protection ... / >>

#### Tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate

##### Predicted no-effect concentration - PNEC

|                                              |       |      |
|----------------------------------------------|-------|------|
| Normal value in fresh water                  | 0,45  | mg/l |
| Normal value in marine water                 | 0,945 | mg/l |
| Normal value for water, intermittent release | 0,953 | mg/l |
| Normal value of STP microorganisms           | 41,2  | mg/l |

#### Sodium cumenesulphonate

##### Predicted no-effect concentration - PNEC

|                                    |      |      |
|------------------------------------|------|------|
| Normal value in fresh water        | 0,23 | mg/l |
| Normal value of STP microorganisms | 100  | mg/l |

##### Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers |                |               |                   | Effects on workers |                |               |                      |
|-------------------|----------------------|----------------|---------------|-------------------|--------------------|----------------|---------------|----------------------|
|                   | Acute local          | Acute systemic | Chronic local | Chronic systemic  | Acute local        | Acute systemic | Chronic local | Chronic systemic     |
| Oral              |                      |                |               | 3,8<br>mg/kg bw/d |                    |                |               |                      |
| Inhalation        |                      |                |               | 13,2<br>mg/m3     |                    |                |               | 53,6<br>mg/m3        |
| Skin              |                      |                |               | 3,8<br>mg/m3      |                    |                |               | 7,6<br>mg/kg<br>bw/d |

#### Sulfonic acids, C14-17-sec-alkane, sodium salts

##### Predicted no-effect concentration - PNEC

|                                              |       |       |
|----------------------------------------------|-------|-------|
| Normal value in fresh water                  | 0,06  | mg/l  |
| Normal value in marine water                 | 0,006 | mg/l  |
| Normal value for fresh water sediment        | 9,4   | mg/kg |
| Normal value for marine water sediment       | 0,94  | mg/kg |
| Normal value for water, intermittent release | 0,06  | mg/l  |
| Normal value of STP microorganisms           | 600   | mg/l  |
| Normal value for the terrestrial compartment | 9,4   | mg/kg |

##### Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers |                |               |                    | Effects on workers |                |               |                    |
|-------------------|----------------------|----------------|---------------|--------------------|--------------------|----------------|---------------|--------------------|
|                   | Acute local          | Acute systemic | Chronic local | Chronic systemic   | Acute local        | Acute systemic | Chronic local | Chronic systemic   |
| Oral              |                      |                |               | 7,1<br>mg/kg bw/d  |                    |                |               |                    |
| Inhalation        |                      |                |               | 12,4<br>mg/m3      |                    |                |               | 35<br>mg/m3        |
| Skin              | 2,8<br>mg/cm2        |                | 2,8<br>mg/cm2 | 3,57<br>mg/kg bw/d | 2,8<br>mg/cm2      |                | 2,8<br>mg/cm2 | 5<br>mg/kg<br>bw/d |

|                                                           |                      |                |               |                  |                    |                                                                                                       |               |                  |  |    |
|-----------------------------------------------------------|----------------------|----------------|---------------|------------------|--------------------|-------------------------------------------------------------------------------------------------------|---------------|------------------|--|----|
| ALLEGRINI S.P.A.                                          |                      |                |               |                  |                    | Revision no.1<br>Revision date 09/05/2024<br>New emission<br>Printed on 09/05/2024<br>Page no. 7 / 17 |               |                  |  | EN |
| 012A291102A - FM 50 ANTICALCARE SOFT                      |                      |                |               |                  |                    |                                                                                                       |               |                  |  |    |
| SECTION 8. Exposure controls/personal protection ... / >> |                      |                |               |                  |                    |                                                                                                       |               |                  |  |    |
| Ethanol                                                   |                      |                |               |                  |                    |                                                                                                       |               |                  |  |    |
| Threshold Limit Value                                     |                      |                |               |                  |                    |                                                                                                       |               |                  |  |    |
| Type                                                      | Country              | TWA/8h         |               | STEL/15min       |                    | Remarks / Observations                                                                                |               |                  |  |    |
|                                                           |                      | mg/m3          | ppm           | mg/m3            | ppm                |                                                                                                       |               |                  |  |    |
| TLV                                                       | BGR                  | 1000           |               |                  |                    |                                                                                                       |               |                  |  |    |
| TLV                                                       | CZE                  | 1000           | 522           | 3000             | 1566               |                                                                                                       |               |                  |  |    |
| AGW                                                       | DEU                  | 380            | 200           | 1520             | 800                |                                                                                                       |               |                  |  |    |
| MAK                                                       | DEU                  | 380            | 200           | 1520             | 800                |                                                                                                       |               |                  |  |    |
| VLA                                                       | ESP                  |                |               | 1910             | 1000               |                                                                                                       |               |                  |  |    |
| TLV                                                       | EST                  | 1000           | 500           | 1900             | 1000               |                                                                                                       |               |                  |  |    |
| VLEP                                                      | FRA                  | 1900           | 1000          | 9500             | 5000               |                                                                                                       |               |                  |  |    |
| TLV                                                       | GRC                  | 1900           | 1000          |                  |                    |                                                                                                       |               |                  |  |    |
| AK                                                        | HUN                  | 1900           |               | 3800             |                    |                                                                                                       |               |                  |  |    |
| GVI/KGVI                                                  | HRV                  | 1900           | 1000          |                  |                    |                                                                                                       |               |                  |  |    |
| RV                                                        | LVA                  | 1000           |               |                  |                    |                                                                                                       |               |                  |  |    |
| NDS/NDSch                                                 | POL                  | 1900           |               |                  |                    |                                                                                                       |               |                  |  |    |
| TLV                                                       | ROU                  | 1900           | 1000          | 9500             | 5000               |                                                                                                       |               |                  |  |    |
| NGV/KGV                                                   | SWE                  | 1000           | 500           | 1900 (C)         | 1000 (C)           |                                                                                                       |               |                  |  |    |
| NPEL                                                      | SVK                  | 960            | 500           | 1920             | 1000               |                                                                                                       |               |                  |  |    |
| MV                                                        | SVN                  | 960            | 500           | 1920             | 1000               |                                                                                                       |               |                  |  |    |
| WEL                                                       | GBR                  | 1920           | 1000          |                  |                    |                                                                                                       |               |                  |  |    |
| TLV-ACGIH                                                 |                      |                |               | 1884             | 1000               |                                                                                                       |               |                  |  |    |
| Predicted no-effect concentration - PNEC                  |                      |                |               |                  |                    |                                                                                                       |               |                  |  |    |
| Normal value in fresh water                               |                      |                |               |                  |                    | 0,96                                                                                                  | mg/l          |                  |  |    |
| Normal value in marine water                              |                      |                |               |                  |                    | 0,79                                                                                                  | mg/l          |                  |  |    |
| Normal value for fresh water sediment                     |                      |                |               |                  |                    | 36                                                                                                    | mg/kg         |                  |  |    |
| Normal value for marine water sediment                    |                      |                |               |                  |                    | 2,9                                                                                                   | mg/kg         |                  |  |    |
| Normal value for water, intermittent release              |                      |                |               |                  |                    | 2,75                                                                                                  | mg/l          |                  |  |    |
| Normal value of STP microorganisms                        |                      |                |               |                  |                    | 580                                                                                                   | mg/l          |                  |  |    |
| Normal value for the food chain (secondary poisoning)     |                      |                |               |                  |                    | 0,72                                                                                                  | mg/kg         |                  |  |    |
| Normal value for the terrestrial compartment              |                      |                |               |                  |                    | 0,63                                                                                                  | mg/kg         |                  |  |    |
| Health - Derived no-effect level - DNEL / DMEL            |                      |                |               |                  |                    |                                                                                                       |               |                  |  |    |
| Route of exposure                                         | Effects on consumers |                |               |                  | Effects on workers |                                                                                                       |               |                  |  |    |
|                                                           | Acute local          | Acute systemic | Chronic local | Chronic systemic | Acute local        | Acute systemic                                                                                        | Chronic local | Chronic systemic |  |    |
| Inhalation                                                |                      |                |               |                  | 1900 mg/m3         |                                                                                                       |               | 950 mg/m3        |  |    |
| Skin                                                      |                      |                |               |                  |                    |                                                                                                       |               | 343 mg/kg/d      |  |    |

EPY 11.7.1 - SDS 1004.14

### SECTION 8. Exposure controls/personal protection ... / >>

#### Isopropanol

##### Threshold Limit Value

| Type      | Country | TWA/8h<br>mg/m3 | ppm | STEL/15min<br>mg/m3 | ppm     | Remarks / Observations |
|-----------|---------|-----------------|-----|---------------------|---------|------------------------|
| TLV       | BGR     | 980             |     | 1225                |         |                        |
| TLV       | CZE     | 500             | 200 | 1000                | 400     |                        |
| AGW       | DEU     | 500             | 200 | 1000                | 400     |                        |
| MAK       | DEU     | 500             | 200 | 1000                | 400     |                        |
| VLA       | ESP     | 500             | 200 | 1000                | 400     |                        |
| TLV       | EST     | 350             | 150 | 600                 | 250     |                        |
| VLEP      | FRA     |                 |     | 980                 | 400     |                        |
| TLV       | GRC     | 980             | 400 | 1225                | 500     |                        |
| AK        | HUN     | 500             |     | 1000                |         | SKIN                   |
| GVI/KGVI  | HRV     | 999             | 400 | 1250                | 500     |                        |
| RV        | LVA     | 350             |     | 600                 |         |                        |
| NDS/NDSch | POL     | 900             |     | 1200                |         | SKIN                   |
| TLV       | ROU     | 200             | 81  | 500                 | 203     |                        |
| NGV/KGV   | SWE     | 350             | 150 | 600 (C)             | 250 (C) |                        |
| NPEL      | SVK     | 500             | 200 | 1000                | 400     |                        |
| MV        | SVN     | 500             | 200 | 2000                | 800     |                        |
| WEL       | GBR     | 999             | 400 | 1250                | 500     |                        |
| TLV-ACGIH |         | 492             | 200 | 983                 | 400     |                        |

##### Predicted no-effect concentration - PNEC

|                                              |       |       |
|----------------------------------------------|-------|-------|
| Normal value in fresh water                  | 140,9 | mg/l  |
| Normal value in marine water                 | 140,9 | mg/l  |
| Normal value for fresh water sediment        | 552   | mg/kg |
| Normal value for marine water sediment       | 552   | mg/kg |
| Normal value for water, intermittent release | 140,9 | mg/l  |
| Normal value for the terrestrial compartment | 28    | mg/kg |

##### Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers |                   |                  |                     | Effects on workers |                   |                  |                      |
|-------------------|----------------------|-------------------|------------------|---------------------|--------------------|-------------------|------------------|----------------------|
|                   | Acute<br>local       | Acute<br>systemic | Chronic<br>local | Chronic<br>systemic | Acute<br>local     | Acute<br>systemic | Chronic<br>local | Chronic<br>systemic  |
| Oral              |                      |                   |                  | 26<br>mg/kg bw/d    |                    |                   |                  |                      |
| Inhalation        |                      |                   |                  | 89<br>mg/m3         |                    |                   |                  | 500<br>mg/m3         |
| Skin              |                      |                   |                  | 319<br>mg/kg bw/d   |                    |                   |                  | 888<br>mg/kg<br>bw/d |

#### Methyl ethyl ketone

##### Threshold Limit Value

| Type      | Country | TWA/8h<br>mg/m3 | ppm   | STEL/15min<br>mg/m3 | ppm   | Remarks / Observations |
|-----------|---------|-----------------|-------|---------------------|-------|------------------------|
| TLV       | BGR     | 590             |       | 885                 |       |                        |
| TLV       | CZE     | 600             | 200,4 | 900                 | 300,6 |                        |
| AGW       | DEU     | 600             | 200   | 600                 | 200   | SKIN                   |
| MAK       | DEU     | 600             | 200   | 600                 | 200   | SKIN                   |
| VLA       | ESP     | 600             | 200   | 900                 | 300   |                        |
| TLV       | EST     | 600             | 200   | 900                 | 300   |                        |
| VLEP      | FRA     | 600             | 200   | 900                 | 300   | SKIN                   |
| TLV       | GRC     | 600             | 200   | 900                 | 300   |                        |
| AK        | HUN     | 600             |       | 900                 |       | SKIN                   |
| GVI/KGVI  | HRV     | 600             | 200   | 900                 | 300   |                        |
| VLEP      | ITA     | 600             | 200   | 900                 | 300   |                        |
| RV        | LVA     | 200             | 67    | 900                 | 300   |                        |
| VLE       | PRT     | 600             | 200   | 900                 | 300   |                        |
| NDS/NDSch | POL     | 450             |       | 900                 |       | SKIN                   |
| TLV       | ROU     | 600             | 200   | 900                 | 300   |                        |
| NGV/KGV   | SWE     | 150             | 50    | 900                 | 300   |                        |
| NPEL      | SVK     | 600             | 200   | 900                 | 300   |                        |
| MV        | SVN     | 600             | 200   | 900                 | 300   | SKIN                   |
| WEL       | GBR     | 600             | 200   | 899                 | 300   | SKIN                   |
| OEL       | EU      | 600             | 200   | 900                 | 300   |                        |
| TLV-ACGIH |         | 590             | 200   | 885                 | 300   |                        |

Legend:

### SECTION 8. Exposure controls/personal protection ... / >>

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.  
VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

#### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

##### HAND PROTECTION

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, permeability time.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

##### SKIN PROTECTION

Wear category III professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

##### EYE PROTECTION

Wear a hood visor or protective visor combined with airtight goggles (see standard EN ISO 16321).

##### RESPIRATORY PROTECTION

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. Use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387).

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

##### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

### SECTION 9. Physical and chemical properties

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

| Properties                             | Value            | Information |
|----------------------------------------|------------------|-------------|
| Appearance                             | liquid           |             |
| Colour                                 | red              |             |
| Odour                                  | fragrant         |             |
| Melting point / freezing point         | not available    |             |
| Initial boiling point                  | 90 °C            |             |
| Flammability                           | Flammable        |             |
| Lower explosive limit                  | not available    |             |
| Upper explosive limit                  | not available    |             |
| Flash point                            | 30 °C            |             |
| Auto-ignition temperature              | not available    |             |
| Decomposition temperature              | not available    |             |
| pH                                     | 12,5             |             |
| Kinematic viscosity                    | not available    |             |
| Solubility                             | soluble in water |             |
| Partition coefficient: n-octanol/water | not available    |             |
| Vapour pressure                        | not available    |             |
| Density and/or relative density        | 1,09-1,11        | g/ml        |
| Relative vapour density                | not available    |             |
| Particle characteristics               | not applicable   |             |

#### 9.2. Other information

9.2.1. Information with regard to physical hazard classes

### SECTION 9. Physical and chemical properties ... / >>

Information not available

9.2.2. Other safety characteristics

Information not available

### SECTION 10. Stability and reactivity

#### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

Methyl ethyl ketone

Reacts with: light metals, strong oxidants. Attacks various types of plastic materials. Decomposes under the effect of heat.

#### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

#### 10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

Ethanol

Risk of explosion on contact with: alkaline metals, alkaline oxides, calcium hypochlorite, sulphur monofluoride, acetic anhydride, acids, concentrated hydrogen peroxide, perchlorates, perchloric acid, perchloronitrile, mercury nitrate, nitric acid, silver, silver nitrate, ammonia, silver oxide, ammonia, strong oxidising agents, nitrogen dioxide. May react dangerously with: bromoacetylene, chlorine acetylene, bromine trifluoride, chromium trioxide, chromyl chloride, fluorine, potassium tert-butoxide, lithium hydride, phosphorus trioxide, black platinum, zirconium (IV) chloride, zirconium (IV) iodide. Forms explosive mixtures with: air.

Methyl ethyl ketone

May form peroxides with: air, light, strong oxidising agents. Risk of explosion on contact with: hydrogen peroxide, nitric acid, sulphuric acid. May react dangerously with: oxidising agents, trichloromethane, alkalis. Forms explosive mixtures with: air.

#### 10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

Tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate

Avoid overheating and contact with incompatible materials.

Ethanol

Avoid exposure to: sources of heat, naked flames.

Methyl ethyl ketone

Avoid exposure to: sources of heat.

#### 10.5. Incompatible materials

Tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate

Avoid contact with: strong acids, strong oxidising agents, strong bases.

Methyl ethyl ketone

Incompatible with: strong oxidants, inorganic acids, ammonia, copper, chloroform.

#### 10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

Sulfonic acids, C14-17-sec-alkane, sodium salts

May develop: carbon dioxide, carbon monoxide, sodium oxides.

### SECTION 11. Toxicological information

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

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### SECTION 11. Toxicological information ... / >>

#### Interactive effects

Information not available

#### ACUTE TOXICITY

ATE (Inhalation - mists / powders) of the mixture: > 5 mg/l  
ATE (Oral) of the mixture: >2000 mg/kg  
ATE (Dermal) of the mixture: Not classified (no significant component)

Tetrasodium ethylene diamine tetraacetate  
LD50 (Oral): 1780 mg/kg Rat  
ATE (Oral): 500 mg/kg estimate from table 3.1.2 of Annex I of the CLP  
(figure used for calculation of the acute toxicity estimate of the mixture)  
LC50 (Inhalation vapours): > 1 mg/l/4h Rat  
ATE (Inhalation mists/powders): 1,5 mg/l  
(figure used for calculation of the acute toxicity estimate of the mixture)

Alcohols, C12-15, branched and linear, ethoxylated  
LD50 (Oral): > 300 mg/kg Rat

Tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate  
LD50 (Dermal): > 2000 mg/kg Rat  
LD50 (Oral): > 2000 mg/kg Rat

Sodium cumenesulphonate  
LD50 (Dermal): 2000 mg/kg Rabbit  
LD50 (Oral): 7000 mg/kg Rat

Sulfonic acids, C14-17-sec-alkane, sodium salts  
LD50 (Dermal): > 2000 mg/kg Rat  
LD50 (Oral): > 500 mg/kg Rat  
ATE (Oral): 500 mg/kg estimate from table 3.1.2 of Annex I of the CLP  
(figure used for calculation of the acute toxicity estimate of the mixture)

Ethanol  
LD50 (Oral): > 6,2 mg/kg Rat  
LC50 (Inhalation vapours): > 50 mg/l/4h Rat

Isopropanol  
LD50 (Dermal): 13900 mg/kg Rabbit  
LD50 (Oral): 5840 mg/kg Rat

Methyl ethyl ketone  
LD50 (Dermal): 6480 mg/kg Rabbit  
LD50 (Oral): 2737 mg/kg Rat  
LC50 (Inhalation vapours): 23,5 mg/l/8h Rat

#### SKIN CORROSION / IRRITATION

Corrosive for the skin  
Classification according to the experimental Ph value

#### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

#### RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

#### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

#### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

### SECTION 11. Toxicological information ... / >>

#### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Tetrasodium ethylene diamine tetraacetate  
NOAEL: F1: > 250 mg/kg (Rat)

#### STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

#### STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Sodium cumenesulphonate  
Oral NOAEL: > 763 mg/kg (Rat)

#### Route of exposure

Sulfonic acids, C14-17-sec-alkane, sodium salts  
NOAEL oral: 200 mg / kg rat

#### ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

### 11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

### SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

#### 12.1. Toxicity

Sodium cumenesulphonate  
EC50 algae: > 230 mg/l (96h)

Sulfonic acids, C14-17-sec-alkane, sodium salts  
NOEC bacteria: 600 mg / l

|                                           |                   |
|-------------------------------------------|-------------------|
| Tetrasodium ethylene diamine tetraacetate |                   |
| LC50 - for Fish                           | > 100 mg/l/96h    |
| EC50 - for Crustacea                      | 140 mg/l/48h      |
| EC50 - for Algae / Aquatic Plants         | > 100 mg/l/72h    |
| Chronic NOEC for Fish                     | > 25,7 mg/l (35d) |
| Chronic NOEC for Crustacea                | > 25 mg/l (21d)   |

|                                                    |                              |
|----------------------------------------------------|------------------------------|
| Alcohols, C12-15, branched and linear, ethoxylated |                              |
| Chronic NOEC for Fish                              | > 0,1 mg/l Carassius Auratus |
| Chronic NOEC for Crustacea                         | > 0,1 mg/l Daphnia           |
| Chronic NOEC for Algae / Aquatic Plants            | > 0,1 mg/l                   |

|                                                    |                |
|----------------------------------------------------|----------------|
| Tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate |                |
| LC50 - for Fish                                    | 95,26 mg/l/96h |
| EC50 - for Crustacea                               | 25,26 mg/l/48h |

|                         |                 |
|-------------------------|-----------------|
| Sodium cumenesulphonate |                 |
| LC50 - for Fish         | > 1000 mg/l/96h |
| EC50 - for Crustacea    | > 1000 mg/l/48h |

|                                                 |                             |
|-------------------------------------------------|-----------------------------|
| Sulfonic acids, C14-17-sec-alkane, sodium salts |                             |
| LC50 - for Fish                                 | > 1 mg/l/96h                |
| EC50 - for Crustacea                            | 9,81 mg/l/48h Daphnia magna |
| EC50 - for Algae / Aquatic Plants               | > 61 mg/l/72h               |

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### SECTION 12. Ecological information ... / >>

|                                   |                                   |
|-----------------------------------|-----------------------------------|
| Chronic NOEC for Fish             | 0,85 mg/l (28d)                   |
| Chronic NOEC for Crustacea        | 0,36 mg/l Daphnia magna (22d)     |
| Ethanol                           |                                   |
| LC50 - for Fish                   | > 13000 mg/l/96h salmo gairdneri  |
| EC50 - for Crustacea              | > 12300 mg/l/48h daphnia magna    |
| EC50 - for Algae / Aquatic Plants | > 275 mg/l/72h chlorella vulgaris |
| Isopropanol                       |                                   |
| LC50 - for Fish                   | > 1 mg/l/96h                      |
| EC50 - for Crustacea              | 10000 mg/l/48h Daphnia magna      |
| EC50 - for Algae / Aquatic Plants | 1800 mg/l/72h                     |

#### 12.2. Persistence and degradability

Alcohols, C12-15, branched and linear, ethoxylated  
Biodegradability: 70% (28d) (OECD 301F)

Tetrasodium ethylene diamine tetraacetate  
NOT rapidly degradable

Alcohols, C12-15, branched and linear, ethoxylated  
Rapidly degradable

Tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate  
Rapidly degradable

Sulfonic acids, C14-17-sec-alkane, sodium salts  
Rapidly degradable

Ethanol  
Rapidly degradable

Methyl ethyl ketone  
Solubility in water  
Rapidly degradable

> 10000 mg/l

#### 12.3. Bioaccumulative potential

Sulfonic acids, C14-17-sec-alkane, sodium salts  
Partition coefficient: n-octanol/water

0,2

Isopropanol  
Partition coefficient: n-octanol/water

0,05

Methyl ethyl ketone  
Partition coefficient: n-octanol/water

0,3

#### 12.4. Mobility in soil

Information not available

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

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

#### 12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

#### 12.7. Other adverse effects

Information not 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.

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, IMDG, IATA: UN 2924

**14.2. UN proper shipping name**

ADR / RID: FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Ethanol ; Tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate)

IMDG: FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Ethanol ; Tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate)

IATA: FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Ethanol ; Tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate)

**14.3. Transport hazard class(es)**

ADR / RID: Class: 3 Label: 3 (8)

IMDG: Class: 3 Label: 3 (8)

IATA: Class: 3 Label: 3 (8)

**14.4. Packing group**

ADR / RID, IMDG, IATA: III

**14.5. Environmental hazards**

ADR / RID: NO

IMDG: not marine pollutant

IATA: NO

**14.6. Special precautions for user**

ADR / RID: HIN - Kemler: 38  
Special provision: 274

IMDG: EMS: F-E, S-C

IATA: Cargo:

Passengers:

Special provision:

Limited Quantities: 5 lt

Limited Quantities: 5 lt

Maximum quantity: 60 L

Maximum quantity: 5 L

A3

Tunnel restriction code: (D/E)

Packaging instructions: 365

Packaging instructions: 354

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

Information not relevant

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

Seveso Category - Directive 2012/18/EU:

P5c

### SECTION 15. Regulatory information ... / >>

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

|                     |        |
|---------------------|--------|
| Product             |        |
| Point               | 3 - 40 |
| Contained substance |        |
| Point               | 75     |

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors  
not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage  $\geq$  than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

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.

### 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

### SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

|                          |                                                                    |
|--------------------------|--------------------------------------------------------------------|
| <b>Flam. Liq. 2</b>      | Flammable liquid, category 2                                       |
| <b>Flam. Liq. 3</b>      | Flammable liquid, category 3                                       |
| <b>Met. Corr. 1</b>      | Substance or mixture corrosive to metals, category 1               |
| <b>Acute Tox. 4</b>      | Acute toxicity, category 4                                         |
| <b>STOT RE 2</b>         | Specific target organ toxicity - repeated exposure, category 2     |
| <b>Skin Corr. 1A</b>     | Skin corrosion, category 1A                                        |
| <b>Eye Dam. 1</b>        | Serious eye damage, category 1                                     |
| <b>Eye Irrit. 2</b>      | Eye irritation, category 2                                         |
| <b>Skin Irrit. 2</b>     | Skin irritation, category 2                                        |
| <b>STOT SE 3</b>         | Specific target organ toxicity - single exposure, category 3       |
| <b>Aquatic Chronic 3</b> | Hazardous to the aquatic environment, chronic toxicity, category 3 |
| <b>H225</b>              | Highly flammable liquid and vapour.                                |
| <b>H226</b>              | Flammable liquid and vapour.                                       |
| <b>H290</b>              | May be corrosive to metals.                                        |
| <b>H302</b>              | Harmful if swallowed.                                              |
| <b>H332</b>              | Harmful if inhaled.                                                |
| <b>H373</b>              | May cause damage to organs through prolonged or repeated exposure. |
| <b>H314</b>              | Causes severe skin burns and eye damage.                           |
| <b>H318</b>              | Causes serious eye damage.                                         |
| <b>H319</b>              | Causes serious eye irritation.                                     |
| <b>H315</b>              | Causes skin irritation.                                            |
| <b>H336</b>              | May cause drowsiness or dizziness.                                 |
| <b>H412</b>              | Harmful to aquatic life with long lasting effects.                 |
| <b>EUH066</b>            | Repeated exposure may cause skin dryness or cracking.              |

### SECTION 16. Other information ... / >>

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 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: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 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: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very persistent and very bioaccumulative
- vPvM: Very persistent and very mobile
- WGK: Water hazard classes (German).

#### GENERAL BIBLIOGRAPHY

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  2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
  3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
  4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
  5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
  6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
  7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
  8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
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  13. Regulation (EU) 2017/776 (X Atp. CLP)
  14. Regulation (EU) 2018/669 (XI Atp. CLP)
  15. Regulation (EU) 2019/521 (XII Atp. CLP)
  16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
  17. Regulation (EU) 2019/1148
  18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
  19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
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  21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
  22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
  23. Delegated Regulation (UE) 2023/707
  24. Delegated Regulation (UE) 2023/1434 (XIX Atp. CLP)
  24. Delegated Regulation (UE) 2023/1435 (XX Atp. CLP)
- 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
  - IFA GESTIS website
  - ECHA website

### SECTION 16. Other information ... / >>

- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

#### 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.

#### CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.