# **Pineline Active Foam**

Revision nr.12 Dated 13/12/2022 Printed on 13/12/2022 Page n. 1 / 10 Replaced revision:11 (Dated 20/10/2022)

ΕN

## SAFETY DATA SHEET

According to Annex II to REACH - Regulation 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

500 Code:

Product name Pineline Active Foam

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

Intended use Car cleaner

1.3. Details of the supplier of the safety data sheet

**TEKNO-FOREST OY** 

Full address Kynttilätie 3

**District and Country** 11710 Riihimäki

**Finland** 

(+358)-19-774860 Tel

Fax

e-mail address of the competent person

responsible for the Safety Data Sheet info@pineline.com

Supplier:

1.4. Emergency telephone number

For urgent inquiries refer to

Emergency number in Finland: 112.

Poison information centre, PL 790, 00029 HUS: tel. 09-471977 or 09-4711.

### **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

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:

Serious eye damage, category 1 H318 Causes serious eye damage. Skin irritation, category 2 H315 Causes skin irritation.

#### 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:

H318 Causes serious eye damage. Causes skin irritation. H315

Precautionary statements:

P261 Avoid breathing dust / fume / gas / mist / vapours / spray.

#### ΕN



# **TEKNO-FOREST OY**

# Pineline Active Foam

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#### SECTION 2. Hazards identification .../>>

P280 Wear protective gloves / protective clothing / eye protection / face protection.

P302+P352 IF ON SKIN: wash with plenty of water / . . .

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsina.

Immediately call a POISON CENTER / doctor / . . . P310

P102 Keep out of reach of children.

Contains: ALCOHOL ETHOXYLATE

COCAMIDOPROPYL AMINE OXIDE

SODIUM METASILICATE SODIUM HYDROXIDE

#### 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**

#### 3.2. Mixtures

Contains:

Identification Classification (EC) 1272/2008 (CLP) x = Conc. %

**ALCOHOL ETHOXYLATE** 

INDEX  $3 \le x < 5$ Acute Tox. 4 H302. Eve Dam. 1 H318

FC LD50 Oral: >300 mg/kg

CAS 69011-36-5 2-(2-BUTOXYETHOXY)ETHANOL

Eye Irrit. 2 H319 INDEX 603-096-00-8  $3 \le x < 5$ 

EC 203-961-6

CAS 112-34-5 **COCAMIDOPROPYL AMINE OXIDE** 

INDEX  $1 \le x < 3$ Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Acute 1 H400 M=1, Aquatic

Chronic 3 H412

EC

CAS 68155-09-9 **SODIUM METASILICATE** 

INDEX  $1 \le x < 2$ Skin Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3 H335

FC 229-912-9 CAS 10213-79-3 SODIUM HYDROXIDE

INDEX 011-002-00-6  $0.5 \le x < 1$ Met. Corr. 1 H290, Skin Corr. 1A H314, Eye Dam. 1 H318

EC 215-185-5 Skin Corr. 1B H314: ≥ 2%, Skin Irrit. 2 H315: ≥ 0,5%, Eye Dam. 1 H318: ≥ 2%,

Eye Irrit. 2 H319: ≥ 0,5% 1310-73-2

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

Contains color

### **SECTION 4. First aid measures**

#### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.



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### SECTION 4. First aid measures .../>>

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

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

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

Information not available

## **SECTION 5. Firefighting measures**

#### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

Choose the most appropriate extinguishing equipment for the specific case.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

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

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

The product is neither flammable nor combustible.

#### 5.3. Advice for firefighters

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

Spills of 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.

#### 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.

Storage temperature: +5...+30 °C. Self life: 12 months from date of production if stored properly in original sealed containers.

### 7.3. Specific end use(s)

Information not available



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### SECTION 8. Exposure controls/personal protection

#### 8.1. Control parameters

NOR

Regulatory References:

Norge

TI V ACCIL

**EST** Ohtlike kemikaalide ja neid sisaldavate materjalide kasutamise töötervishoiu ja tööohutuse nõuded Eesti

ning töökeskkonna keemiliste ohutegurite piirnormid [RT I, 17.10.2019, 1 - jõust. 17.01.2020]

FIN Suomi HTP-VÄRDEN 2020. Koncentrationer som befunnits skadliga. SOCIAL - OCH

HÄLSOVÅRDSMINISTERIETS PUBLIKATIONER 2020:25

Decreto Legislativo 9 Aprile 2008, n.81 ITA Italia

Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i

arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og

grenseverdier), 21. august 2018 nr. 1255

**SWE** Sverige Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska

gränsvärden (AFS 2018:1)

United Kingdom EH40/2005 Workplace exposure limits (Fourth Edition 2020) **GBR** 

ΕU 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. VCCIH 2024

| ILV-ACGIII | ACGITI 2021 |
|------------|-------------|
|            |             |
|            |             |
|            |             |

|                       | 2-(2-BUTOXYETHOXY)ETHANOL |        |     |         |     |                        |  |  |  |
|-----------------------|---------------------------|--------|-----|---------|-----|------------------------|--|--|--|
| Threshold Limit Value |                           |        |     |         |     |                        |  |  |  |
| Type                  | Country                   | TWA/8h |     | STEL/15 | min | Remarks / Observations |  |  |  |
|                       |                           | mg/m3  | ppm | mg/m3   | ppm |                        |  |  |  |
| HTP                   | FIN                       | 68     | 10  |         |     |                        |  |  |  |
| VLEP                  | ITA                       | 67,5   | 10  | 101,2   | 15  |                        |  |  |  |
| TLV                   | NOR                       | 68     | 10  |         |     |                        |  |  |  |
| NGV/KGV               | SWE                       | 68     | 10  | 101     | 15  |                        |  |  |  |
| WEL                   | GBR                       | 67,5   | 10  | 101,2   | 15  |                        |  |  |  |
| OEL                   | EU                        | 67,5   | 10  | 101,2   | 15  |                        |  |  |  |
| TLV-ACGIH             |                           | 66     | 10  |         |     | INHAL                  |  |  |  |

|                       | SODIUM HYDROXIDE |        |     |         |     |                        |  |  |
|-----------------------|------------------|--------|-----|---------|-----|------------------------|--|--|
| Threshold Limit Value |                  |        |     |         |     |                        |  |  |
| Type                  | Country          | TWA/8h |     | STEL/15 | min | Remarks / Observations |  |  |
|                       |                  | mg/m3  | ppm | mg/m3   | ppm |                        |  |  |
| TLV                   | EST              | 1      |     | 2 (C)   |     |                        |  |  |
| HTP                   | FIN              |        |     | 2 (C)   |     |                        |  |  |
| TLV                   | NOR              | 2      |     |         |     |                        |  |  |
| NGV/KGV               | SWE              | 1      |     | 2       |     | INHAL                  |  |  |
| WEL                   | GBR              |        |     | 2       |     |                        |  |  |
| TLV-ACGIH             |                  |        |     | 2 (C)   |     |                        |  |  |

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

### 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

In the case of prolonged contact with the product, protect the hands with penetration-resistant work gloves (see standard EN 374).

Work glove material must be chosen according to the use process and the products that may form. Latex gloves may cause sensitivity reactions.

SKIN PROTECTION

Wear category I 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.

**EYE PROTECTION** 

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

None required, unless indicated otherwise in the chemical risk assessment.

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Information

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

**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 Appearance liquid Colour yellow Odour pungent Melting point / freezing point not available Initial boiling point 100 °C Flammability incombustible Lower explosive limit not available Upper explosive limit not available Flash point 100 °C not available Auto-ignition temperature Decomposition temperature not available рΗ 129 Kinematic viscosity not available soluble in water Solubility Partition coefficient: n-octanol/water not available Vapour pressure not available Density and/or relative density 1.09 Relative vapour density not available Particle characteristics not applicable

# 9.2. Other information

9.2.1. Information with regard to physical hazard classes

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.

SODIUM METASILICATE

The aqueous solutions act as: strong bases.Corrodes: aluminium,zinc,tin,aluminium alloys,zinc alloys,tin alloys.

## 10.2. Chemical stability

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

#### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

#### 2-(2-BUTOXYETHOXY)ETHANOL

May react with: oxidising substances. May form peroxides with: oxygen. Develops hydrogen on contact with: aluminium. May form explosive mixtures with: air.

SODIUM METASILICATE

Reacts violently with: acids.

#### 10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

### 2-(2-BUTOXYETHOXY)ETHANOL

Avoid exposure to: air.

@EPY 11.4.1 - SDS 1004.14



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#### SECTION 10. Stability and reactivity .../>>

SODIUM HYDROXIDE

Avoid exposure to: air, moisture, sources of heat.

10.5. Incompatible materials

2-(2-BUTOXYETHOXY)ETHANOL

Incompatible with: oxidising substances, strong acids, alkaline metals.

SODIUM HYDROXIDE

Incompatible with: strong acids,ammonia,zinc,lead,aluminium,water,flammable liquids.

10.6. Hazardous decomposition products

2-(2-BUTOXYETHOXY)ETHANOL

May develop: hydrogen.

### **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

2-(2-BUTOXYETHOXY)ETHANOL

WORKERS: inhalation; contact with the skin.

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

#### 2-(2-BUTOXYETHOXY)ETHANOL

May be absorbed by inhalation, ingestion and skin contact; is irritating for the skin and especially for the eyes. May cause damage to the spleen. At room temperature the danger of inhalation is unlikely, due to the low vapour pressure of the substance.

Interactive effects

Information not available

**ACUTE TOXICITY** 

ATE (Inhalation) of the mixture: Not classified (no significant component)

ATE (Oral) of the mixture: >2000 mg/kg

ATE (Dermal) of the mixture: Not classified (no significant component)

ALCOHOL ETHOXYLATE

LD50 (Oral): > 300 mg/kg

2-(2-BUTOXYETHOXY)ETHANOL

 LD50 (Dermal):
 2700 mg/kg Rabbit

 LD50 (Oral):
 3384 mg/kg Rat

COCAMIDOPROPYL AMINE OXIDE

LD50 (Oral): 1000 mg/kg

SODIUM HYDROXIDE

LD50 (Dermal): 1350 mg/kg Rat LD50 (Oral): 1350 mg/kg Rat

SKIN CORROSION / IRRITATION

Causes skin irritation

**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** 

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

Does not meet the classification criteria for this hazard class

#### **CARCINOGENICITY**

Does not meet the classification criteria for this hazard class

#### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

#### 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

#### **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**

#### 12.1. Toxicity

COCAMIDOPROPYL AMINE OXIDE

LC50 - for Fish 0,68 mg/l/96h Chronic NOEC for Algae / Aquatic Plants 0,303 mg/l

ALCOHOL ETHOXYLATE

LC10 for Fish > 1 mg/l/96h

### 12.2. Persistence and degradability

COCAMIDOPROPYL AMINE OXIDE

Rapidly degradable

ALCOHOL ETHOXYLATE

Rapidly degradable

SODIUM HYDROXIDE

Solubility in water > 10000 mg/l

Degradability: information not available

2-(2-BUTOXYETHOXY)ETHANOL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

#### 12.3. Bioaccumulative potential

2-(2-BUTOXYETHOXY)ETHANOL
Partition coefficient: n-octanol/water

1

#### 12.4. Mobility in soil

Information not available

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

@EPY 11.4.1 - SDS 1004.14

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

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

**CONTAMINATED PACKAGING** 

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

### **SECTION 14. Transport information**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

#### 14.1. UN number or ID number

not applicable

#### 14.2. UN proper shipping name

not applicable

### 14.3. Transport hazard class(es)

not applicable

### 14.4. Packing group

not applicable

#### 14.5. Environmental hazards

not applicable

#### 14.6. Special precautions for user

not applicable

## 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: None

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

**Product** 

Point 3
Contained substance
Point 75

Point 55 2-(2-BUTOXYETHOXY)ETHANOL

#### ΕN



# **TEKNO-FOREST OY**

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

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 ≥ 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.

#### 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:

Met. Corr. 1 Substance or mixture corrosive to metals, category 1

Acute Tox. 4
Skin Corr. 1A
Skin Corr. 1B
Skin corrosion, category 1B
Sye Dam. 1
Sye Irrit. 2
Skin Irrit. 2
Skin corrosion, category 1
Sye Irrit. 2
Skin irritation, category 2
Skin Irrit. 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1

Aquatic Chronic 3 Hazardous to the aquatic environment, chronic toxicity, category 3

H290 May be corrosive to metals.
H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H315 Causes skin irritation.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

#### 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



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

- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- 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 as for REACH Regulation
- WGK: Water hazard classes (German).

#### GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 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 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 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)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP) 22. Delegated Regulation (UE) 2022/692 (XVIII 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
- 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

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

Changes to previous review:

The following sections were modified:

02/03/09/11/12/15/16.