

## 62103 - Action 6

## Safety Data Sheet

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

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

## 1.1. Product identifier

Code: 62103  
Product name: Action 6

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

Intended use: Not available

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

Name: Profclean Europe B.V.  
Full address: Duinweg 4b  
District and Country: 5482VR Schijndel NL  
Tel.: 0735478265  
Fax: 0735492305  
e-mail address of the competent person responsible for the Safety Data Sheet: fvboxmeer@profclean.eu

## 1.4. Emergency telephone number

For urgent inquiries refer to: 0735478265

## 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:

|                            |      |                                             |
|----------------------------|------|---------------------------------------------|
| Aerosol, category 2        | H223 | Flammable aerosol.                          |
|                            | H229 | Pressurised container: may burst if heated. |
| Eye irritation, category 2 | H319 | Causes serious eye irritation.              |

## 2.2. Label elements

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

Hazard pictograms:



Signal words: Warning

Hazard statements:

|        |                                                       |
|--------|-------------------------------------------------------|
| H223   | Flammable aerosol.                                    |
| H229   | Pressurised container: may burst if heated.           |
| H319   | Causes serious eye irritation.                        |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

Precautionary statements:

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

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## SECTION 2. Hazards identification ... / &gt;&gt;

|                  |                                                                              |
|------------------|------------------------------------------------------------------------------|
| <b>P251</b>      | Do not pierce or burn, even after use.                                       |
| <b>P410+P412</b> | Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F. |
| <b>P211</b>      | Do not spray on an open flame or other ignition source.                      |
| <b>P280</b>      | Wear eye protection / face protection.                                       |
| <b>P337+P313</b> | If eye irritation persists: Get medical advice / attention.                  |

**Contains:** Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics  
hydrocarbons c11-c14 n-alkanes cycles < 2% aromatics  
PROPAN-2-OL

## 2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentration  $\geq$  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)                                                                              |
|--------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------|
| <b>PROPAN-2-OL</b>                                                             |                  |                                                                                                                  |
| INDEX 603-117-00-0                                                             | $20 \leq x < 30$ | Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336                                                             |
| EC 200-661-7                                                                   |                  |                                                                                                                  |
| CAS 67-63-0                                                                    |                  |                                                                                                                  |
| <b>BUTANE</b>                                                                  |                  |                                                                                                                  |
| INDEX 601-004-00-0                                                             | $9 \leq x < 30$  | Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classification note according to Annex VI to the CLP Regulation: C, U |
| EC 203-448-7                                                                   |                  |                                                                                                                  |
| CAS 106-97-8                                                                   |                  |                                                                                                                  |
| <b>hydrocarbons c11-c14 n-alkanes cycles &lt; 2% aromatics</b>                 |                  |                                                                                                                  |
| INDEX 10 ≤ x < 30                                                              |                  | Asp. Tox. 1 H304, EUH066                                                                                         |
| EC 926-141-6                                                                   |                  |                                                                                                                  |
| CAS                                                                            |                  |                                                                                                                  |
| REACH Reg. 01-2119456620-43                                                    |                  |                                                                                                                  |
| <b>INERT</b>                                                                   |                  |                                                                                                                  |
| INDEX 9 ≤ x < 30                                                               |                  |                                                                                                                  |
| EC                                                                             |                  |                                                                                                                  |
| CAS                                                                            |                  |                                                                                                                  |
| <b>Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, &lt; 2% aromatics</b> |                  |                                                                                                                  |
| INDEX 9 ≤ x < 10                                                               |                  | Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H336, EUH066                                                      |
| EC 919-857-5                                                                   |                  |                                                                                                                  |
| CAS                                                                            |                  |                                                                                                                  |
| REACH Reg. 01-2119463258-0002                                                  |                  |                                                                                                                  |

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

The product is an aerosol containing propellants. For the purposes of calculation of the health hazards, propellants are not considered (unless they have health hazards). The percentages indicated are inclusive of the propellants.  
Percentage of propellants: 24,90 %

## 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 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

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

**SKIN:** Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.  
**INHALATION:** Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.  
**INGESTION:** Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

#### 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

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

##### 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

If overheated, aerosol cans can deform, explode and be propelled considerable distances. Put a protective helmet on before approaching the fire. Do not breathe combustion products.

#### 5.3. Advice for firefighters

##### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear.

##### 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

Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site. Send away individuals who are not suitably equipped. Wear protective gloves / protective clothing / eye protection / face protection.

#### 6.2. Environmental precautions

Do not disperse in the environment.

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

Use inert absorbent material to soak up leaked product. 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

Avoid bunching of electrostatic charges. Do not spray on flames or incandescent bodies. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Do not eat, drink or smoke during use. Do not breathe spray.

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

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EN

### SECTION 7. Handling and storage ... / >>

Store in a place where adequate ventilation is ensured, away from direct sunlight at a temperature below 50°C / 122°F, away from any combustion sources.

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

Information not available

### SECTION 8. Exposure controls/personal protection

#### 8.1. Control parameters

Regulatory References:

|     |                |                                                                                                                                                                                                                     |
|-----|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DEU | Deutschland    | Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe Mitteilung 58                                                                       |
| DNK | Danmark        | Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019                                                                                                                               |
| ESP | España         | Límites de exposición profesional para agentes químicos en España 2023                                                                                                                                              |
| FRA | France         | Valeurs limites d'exposition professionnelle aux agents chimiques en FranceDécret n° 2021-1849 du 28 décembre 2021                                                                                                  |
| NLD | Nederland      | Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit                                               |
| 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 |
| GBR | United Kingdom | EH40/2005 Workplace exposure limits (Fourth Edition 2020)                                                                                                                                                           |
|     | TLV-ACGIH      | ACGIH 2021                                                                                                                                                                                                          |

#### BUTANE

##### Threshold Limit Value

| Type      | Country | TWA/8h |      | STEL/15min |      | Remarks / Observations |
|-----------|---------|--------|------|------------|------|------------------------|
|           |         | mg/m3  | ppm  | mg/m3      | ppm  |                        |
| AGW       | DEU     | 2400   | 1000 | 9600       | 4000 |                        |
| MAK       | DEU     | 2400   | 1000 | 9600       | 4000 |                        |
| TLV       | DNK     | 1200   | 500  |            |      |                        |
| VLA       | ESP     |        | 1000 |            |      | Gases                  |
| VLEP      | FRA     | 1900   | 800  |            |      |                        |
| TGG       | NLD     | 1430   |      |            |      |                        |
| NDS/NDSch | POL     | 1900   |      | 3000       |      |                        |
| WEL       | GBR     | 1450   | 600  | 1810       | 750  |                        |
| WEL       | GBR     |        | 4    |            |      | RESP                   |
| TLV-ACGIH |         |        |      |            | 1000 |                        |

#### PROPAN-2-OL

##### Threshold Limit Value

| Type      | Country | TWA/8h |     | STEL/15min |     | Remarks / Observations |
|-----------|---------|--------|-----|------------|-----|------------------------|
|           |         | mg/m3  | ppm | mg/m3      | ppm |                        |
| AGW       | DEU     | 500    | 200 | 1000       | 400 |                        |
| MAK       | DEU     | 500    | 200 | 1000       | 400 |                        |
| TLV       | DNK     | 490    | 200 |            |     |                        |
| VLA       | ESP     | 500    | 200 | 1000       | 400 |                        |
| VLEP      | FRA     |        |     | 980        | 400 |                        |
| TGG       | NLD     | 650    |     |            |     |                        |
| NDS/NDSch | POL     | 900    |     | 1200       |     | SKIN                   |
| WEL       | GBR     | 999    | 400 | 1250       | 500 |                        |
| TLV-ACGIH |         | 492    | 200 | 983        | 400 |                        |

Legend:

(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

None required.

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## SECTION 8. Exposure controls/personal protection ... / &gt;&gt;

## 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

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, a mask with a type AX filter combined with a type P filter should be worn (see standard EN 14387).

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

## 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                             | aerosol            |             |
| Colour                                 | yellow             |             |
| Odour                                  | characteristic     |             |
| Melting point / freezing point         | Not available      |             |
| Initial boiling point                  | Not available      |             |
| Flammability                           | Not available      |             |
| Lower explosive limit                  | Not available      |             |
| Upper explosive limit                  | Not available      |             |
| Flash point                            | Not applicable     |             |
| Auto-ignition temperature              | Not available      |             |
| Decomposition temperature              | Not available      |             |
| pH                                     | Not available      |             |
| Kinematic viscosity                    | Not available      |             |
| Solubility                             | insoluble in water |             |
| Partition coefficient: n-octanol/water | Not available      |             |
| Vapour pressure                        | Not available      |             |
| Density and/or relative density        | 0,672              |             |
| 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

VOC (Directive 2010/75/EU) 59,70 % - 401,18 g/litre

## SECTION 10. Stability and reactivity

## 10.1. Reactivity

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

## 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.

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**SECTION 10. Stability and reactivity ... / >>****10.4. Conditions to avoid**

Avoid overheating.

**10.5. Incompatible materials**

Strong reducing or oxidising agents, strong acids or alkalis, hot material.

**10.6. Hazardous decomposition products**

Information not available

**SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

**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

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture:

Not classified (no significant component)

ATE (Oral) of the mixture:

Not classified (no significant component)

ATE (Dermal) of the mixture:

Not classified (no significant component)

PROPAN-2-OL

LD50 (Dermal):

12800 mg/kg Rat

LD50 (Oral):

4710 mg/kg Rat

LC50 (Inhalation vapours):

72,6 mg/l/4h Rat

SKIN CORROSION / IRRITATION

Repeated exposure may cause skin dryness or cracking.

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

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

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

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**

Information not available

**12.2. Persistence and degradability**

## BUTANE

Solubility in water

0,1 - 100 mg/l

Rapidly degradable

## PROPAN-2-OL

Rapidly degradable

**12.3. Bioaccumulative potential**

## BUTANE

Partition coefficient: n-octanol/water

1,09

## PROPAN-2-OL

Partition coefficient: n-octanol/water

0,05

**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

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## 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: 1950

## 14.2. UN proper shipping name

ADR / RID: AEROSOLS  
IMDG: AEROSOLS  
IATA: AEROSOLS, FLAMMABLE

## 14.3. Transport hazard class(es)

ADR / RID: Class: 2 Label: 2.1

IMDG: Class: 2 Label: 2.1

IATA: Class: 2 Label: 2.1



## 14.4. Packing group

ADR / RID, IMDG, IATA: -

## 14.5. Environmental hazards

ADR / RID: NO  
IMDG: NO  
IATA: NO

## 14.6. Special precautions for user

|            |                                       |                          |                              |
|------------|---------------------------------------|--------------------------|------------------------------|
| ADR / RID: | HIN - Kemler: --                      | Limited Quantities: 1 L  | Tunnel restriction code: (D) |
|            | Special provision: 190, 327, 344, 625 |                          |                              |
| IMDG:      | EMS: F-D, S-U                         | Limited Quantities: 1 L  |                              |
| IATA:      | Cargo:                                | Maximum quantity: 150 Kg | Packaging instructions: 203  |
|            | Pass.:                                | Maximum quantity: 75 Kg  | Packaging instructions: 203  |
|            | Special provision:                    | A145, A167, A802         |                              |

## 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:

P3a



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

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

Product

Point 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.

#### 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. Gas 1A</b>      | Flammable gas, category 1A                                   |
| <b>Aerosol 2</b>         | Aerosol, category 2                                          |
| <b>Aerosol 3</b>         | Aerosol, category 3                                          |
| <b>Flam. Liq. 2</b>      | Flammable liquid, category 2                                 |
| <b>Flam. Liq. 3</b>      | Flammable liquid, category 3                                 |
| <b>Press. Gas (Liq.)</b> | Liquefied gas                                                |
| <b>Asp. Tox. 1</b>       | Aspiration hazard, category 1                                |
| <b>Eye Irrit. 2</b>      | Eye irritation, category 2                                   |
| <b>STOT SE 3</b>         | Specific target organ toxicity - single exposure, category 3 |
| <b>H220</b>              | Extremely flammable gas.                                     |
| <b>H223</b>              | Flammable aerosol.                                           |
| <b>H229</b>              | Pressurised container: may burst if heated.                  |
| <b>H225</b>              | Highly flammable liquid and vapour.                          |
| <b>H226</b>              | Flammable liquid and vapour.                                 |
| <b>H280</b>              | Contains gas under pressure; may burst if heated.            |
| <b>H304</b>              | May be fatal if swallowed and enters airways.                |
| <b>H319</b>              | Causes serious eye irritation.                               |
| <b>H336</b>              | May cause drowsiness or dizziness.                           |
| <b>EUH066</b>            | Repeated exposure may cause skin dryness or cracking.        |

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%

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

- 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

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)

- 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 11.

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

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

Section 12.

Changes to previous review:

The following sections were modified:

03 / 08 / 09 / 11 / 14 / 15 / 16.