

## SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

### Peracetic acid solution 4% in water

|               |                    |         |     |
|---------------|--------------------|---------|-----|
| Creation date | 13th October 2020  | Version | 5.0 |
| Revision date | 20th November 2024 |         |     |

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

- 1.1. Product identifier**  
 Substance / mixture Peracetic acid solution 4% in water  
 Other mixture names mixture  
 Peracetic acid solution 4% in water
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
**Mixture's intended use**  
 Oxidizing agent.  
**Mixture uses advised against**  
 The product should not be used in ways other than those referred in Section 1.
- 1.3. Details of the supplier of the safety data sheet**  
**Supplier**  
 Name or trade name Ing. Petr Švec - PENTA s.r.o.  
 Address Radiová 1122/1, Praha 10, 102 00  
 Czech Republic  
 Identification number (CRN) 02096013  
 VAT Reg No CZ02096013  
 Phone +420 226 060 681  
 E-mail info@pentachemicals.eu  
 Web address www.pentachemicals.eu
- Competent person responsible for the safety data sheet**  
 Name Ing. Petr Švec - PENTA s.r.o.  
 E-mail info@pentachemicals.eu
- 1.4. Emergency telephone number**  
 European emergency number: 112 112

#### SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture**  
**Classification of the mixture in accordance with Regulation (EC) No 1272/2008**  
 The mixture is classified as dangerous.
- Self-react. D, H242  
 Acute Tox. 4, H302+H332  
 Skin Corr. 1A, H314  
 Eye Dam. 1, H318
- Most serious adverse physico-chemical effects**  
 Heating may cause a fire.
- Most serious adverse effects on human health and the environment**  
 Causes severe skin burns and eye damage. Causes serious eye damage. Harmful if swallowed or if inhaled.

#### 2.2. Label elements

##### Hazard pictogram



##### Signal word

Danger

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#### Hazardous substances

hydrogen peroxide solution... %

acetic acid ... %

peracetic acid . . . %

#### Hazard statements

H242

Heating may cause a fire.

H302+H332

Harmful if swallowed or if inhaled.

H314

Causes severe skin burns and eye damage.

#### Precautionary statements

P261

Avoid breathing mist/vapours/spray.

P280

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

P305+P351+P338

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

P308+P313

IF exposed or concerned: Get medical advice/attention.

#### 2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended. Does not contain any PMT or vPvM components.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Chemical characterization

Mixture of substances and additives specified below.

**Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment**

| Identification numbers  | Substance name                  | Content in % weight | Classification according to Regulation (EC) No 1272/2008   | Note |
|---|---------------------------------|---------------------|--|------|
| Index: 008-003-00-9<br>CAS: 7722-84-1<br>EC: 231-765-0<br>Registration number:<br>01-2119485845-22-0000 | hydrogen peroxide solution... % | 5-7                 | Ox. Liq. 1, H271<br>Acute Tox. 4, H302, H332<br>Skin Corr. 1A, H314<br>Specific concentration limit:<br>Skin Corr. 1A, H314: C ≥ 70 %<br>Skin Corr. 1B, H314: 50 % ≤ C < 70 %<br>Skin Irrit. 2, H315: 35 % ≤ C < 50 %<br>Eye Irrit. 2, H319: 5 % ≤ C < 8 %<br>Eye Dam. 1, H318: 8 % ≤ C < 50 %<br>Ox. Liq. 1, H271: C ≥ 70 %<br>Ox. Liq. 2, H272: 50 % ≤ C < 70 %<br>STOT SE 3, H335: C ≥ 35 % | 1, 4 |

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| Identification numbers  | Substance name         | Content in % weight | Classification according to Regulation (EC) No 1272/2008   | Note |
|---|------------------------|---------------------|--|------|
| Index: 607-002-00-6<br>CAS: 64-19-7<br>EC: 200-580-7<br>Registration number:<br>01-2119475328-30-<br>xxxx | acetic acid ... %      | <5                  | Flam. Liq. 3, H226<br>Skin Corr. 1A, H314<br>Eye Dam. 1, H318<br>Specific concentration limit:<br>Skin Corr. 1A, H314: C ≥ 90 %<br>Skin Irrit. 2, H315: 10 % ≤ C < 25 %<br>Skin Corr. 1B, H314: 25 % ≤ C < 90 %<br>Eye Irrit. 2, H319: 10 % ≤ C < 25 % | 1, 3 |
| Index: 607-094-00-8<br>CAS: 79-21-0<br>EC: 201-186-8  | peracetic acid . . . % | 3.5-4.5             | Flam. Liq. 3, H226<br>Org. Perox. D, H242<br>Acute Tox. 4, H302+H312+H332<br>Skin Corr. 1A, H314<br>Aquatic Acute 1, H400 (M=1)<br>Specific concentration limit:<br>STOT SE 3, H335: C ≥ 1 %   | 1, 2 |

#### Notes

- Note B: Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.*
- Note D: Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3 of Annex VI to Regulation (EC) No 1272/2008. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier who places such a substance on the market must state on the label the name of the substance followed by the words "non-stabilised".*
- A substance for which exposure limits are set.*
- Explosive precursor*

Full text of all classifications and hazard statements is given in the section 16.

#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

##### If inhaled

Take care of your own safety, do not let the affected person walk! Terminate the exposure immediately; move the affected person to fresh air. Beware of the contaminated clothes. Depending on the situation, call the medical rescue service and ensure medical treatment considering the frequent need of further observation for at least 24 hours.

##### If on skin

Remove contaminated clothes. Take off any rings, watches, bracelets before or during washing if worn in the contaminated areas of the skin. Depending on the situation, call the medical rescue service and always ensure medical treatment. Rinse contaminated areas with a flow of water, lukewarm at best, for 10-30 minutes; do not use any brush, soap or neutralizers. Rinse skin with water or shower. Rinse cautiously with water for several minutes.

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#### If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

#### If swallowed

RINSE THE MOUTH WITH WATER IMMEDIATELY AND LET THE PERSON DRINK 2-5 dl of cold water to reduce the heating effect of the corrosive substance. Consuming larger amounts of liquid is not advisable as it may induce vomiting and potential inhaling of the corrosive substances in the lungs. The affected person must not be forced to drink, particularly if already feeling pain in the mouth or throat. In this case let the affected person only rinse the mouth with water. DO NOT PROVIDE ACTIVATED CARBON! Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible.

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

##### If inhaled

Inhaling vapours can cause corrosion of the breathing system. Cough, headache.

##### If on skin

Causes severe skin burns.

##### If in eyes

Causes serious eye damage.

##### If swallowed

Corrosion of the digestion system can occur.

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

Symptomatic treatment.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

##### Unsuitable extinguishing media

Water - full jet.

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

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

#### 5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Heating may cause a fire. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes.

#### 6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

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

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

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#### 6.4. Reference to other sections

See the Section 7, 8 and 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. Do not inhale aerosols. Prevent contact with skin and eyes. Wash hands and exposed parts of the body thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Ground and bond container and receiving equipment.

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

Protect from light. Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Store locked up. Keep only in original packaging. Protect from sunlight. Keep container tightly closed. Store separately. Keep cool.

Storage temperature -30+20 °C

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

not available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

#### European Union

#### Commission Directive (EU) 2017/164

| Substance name (component)       | Type           | Value                |
|----------------------------------|----------------|----------------------|
| acetic acid ... % (CAS: 64-19-7) | OEL 8 hours    | 25 mg/m <sup>3</sup> |
|                                  | OEL 8 hours    | 10 ppm               |
|                                  | OEL 15 minutes | 50 mg/m <sup>3</sup> |
|                                  | OEL 15 minutes | 20 ppm               |

#### 8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

##### Eye/face protection

Protective goggles or face shield (based on the nature of the work performed).

##### Skin protection

Suitable material: butyl rubber. Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

##### Respiratory protection

Halfmask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or in a poorly ventilated environment.

##### Thermal hazard

Not available.

##### Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

### SECTION 9: Physical and chemical properties

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

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|  |                                  |
|--|----------------------------------|
| Physical state   | liquid                           |
| Colour   | colourless, yellow               |
| Odour  | acrid                            |
| Melting point/freezing point                             | -12 °C                           |
| Boiling point or initial boiling point and boiling range | >80 °C                           |
| Flammability   | data not available               |
| Lower and upper explosion limit                          | data not available               |
| Flash point  | data not available               |
| Auto-ignition temperature                                | data not available               |
| Decomposition temperature                                | data not available               |
| pH   | 2.2 (4% solution)                |
| Kinematic viscosity                                      | 2.20 mm <sup>2</sup> /s at 40 °C |
| Solubility in water                                      | soluble                          |
| Partition coefficient n-octanol/water (log value)        | data not available               |
| Vapour pressure  | 1.42 kPa at 20 °C                |
| Density and/or relative density                          |                                  |
| Density  | 1.039 g/cm <sup>3</sup> at 20 °C |
| Relative vapour density                                  | data not available               |
| Particle characteristics                                 | data not available               |

#### 9.2. Other information

not available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

not available

#### 10.2. Chemical stability

The product is stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

It may initiate explosive polymerisation of substances with unsaturated chemical bonds.

#### 10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost. Heating may cause a fire.

#### 10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

#### 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

### SECTION 11: Toxicological information

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

No toxicological data is available for the mixture.

#### Acute toxicity

Harmful if swallowed or if inhaled.

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|-------------------------------------|-----------|------------|---------------|---------|-----|----------------------|
| Route of exposure                   | Parameter | Value      | Exposure time | Species | Sex | Value determination  |
| Oral                                | ATE       | 4348 mg/kg |               |         |     | Calculation of value |

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|-------------------------------------|-----------|-------------|---------------|---------|-----|----------------------|
| Route of exposure                   | Parameter | Value       | Exposure time | Species | Sex | Value determination  |
| Dermal                              | ATE       | 24444 mg/kg |               |         |     | Calculation of value |
| Inhalation (gases)                  | ATE       | 39130 ppm   |               |         |     | Calculation of value |

| acetic acid ... % |                  |            |               |                         |     |                     |
|-------------------|------------------|------------|---------------|-------------------------|-----|---------------------|
| Route of exposure | Parameter        | Value      | Exposure time | Species                 | Sex | Value determination |
| Oral              | LD <sub>50</sub> | 3310 mg/kg |               | Rat (Rattus norvegicus) |     |                     |
| Dermal            | LD <sub>50</sub> | 1060 mg/kg |               | Rabbit                  |     |                     |

#### Skin corrosion/irritation

Causes severe skin burns and eye damage.

#### Serious eye damage/irritation

Causes severe skin burns and eye damage.

#### Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

#### Germ cell mutagenicity

Based on available data the classification criteria are not met.

#### Carcinogenicity

Based on available data the classification criteria are not met.

#### Reproductive toxicity

Based on available data the classification criteria are not met.

#### Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

#### Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

#### Aspiration hazard

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. Based on available data the classification criteria are not met.

#### 11.2. Information on other hazards

##### Endocrine disrupting properties

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption for humans.

##### Other information

not available

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#### SECTION 12: Ecological information

##### 12.1. Toxicity

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

##### Acute toxicity

| acetic acid ... % |         |               |                            |             |
|-------------------|---------|---------------|----------------------------|-------------|
| Parameter         | Value   | Exposure time | Species                    | Environment |
| LC <sub>50</sub>  | 75 mg/l | 96 hours      | Fish (Lepomis macrochirus) |             |
| EC <sub>50</sub>  | 47 mg/l | 24 hours      | Daphnia (Daphnia magna)    |             |

##### 12.2. Persistence and degradability

No data are available for either the mixture or the components.

##### 12.3. Bioaccumulative potential

No data are available for either the mixture or the components.

##### 12.4. Mobility in soil

No data are available for either the mixture or the components.

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

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any PBT or vPvB components. Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

##### 12.6. Endocrine disrupting properties

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption in the environment.

##### 12.7. Other adverse effects

Not available.

#### SECTION 13: Disposal considerations

##### 13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

##### Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

#### SECTION 14: Transport information

##### 14.1. UN number or ID number

UN 3149

##### 14.2. UN proper shipping name

HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE

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

5.1 Oxidizing substances

##### 14.4. Packing group

II



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#### 14.5. Environmental hazards

not relevant

#### 14.6. Special precautions for user

Reference in the Sections 4 to 8.

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

not relevant

#### Additional information

|                           |             |
|---------------------------|-------------|
| Hazard identification No. | <b>58</b>   |
| UN number                 | <b>3149</b> |
| Classification code       | OC1         |
| Safety signs              | 5.1+8       |



Tunnel restriction code (E)

#### Air transport - ICAO/IATA

|                                  |     |
|----------------------------------|-----|
| Packaging instructions passenger | 550 |
| Cargo packaging instructions     | 554 |

#### Marine transport - IMDG

EmS (emergency plan) F-H, S-Q

### SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Product contains regulated explosives precursor: Making available, introduction, possession and use of those precursors by member of the general public according to Regulation (EU) 2019/1148, Article 5 to 9. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

#### 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

### SECTION 16: Other information

#### A list of standard risk phrases used in the safety data sheet

|                |   |
|----------------|---|
| H226           | Flammable liquid and vapour.                              |
| H242           | Heating may cause a fire.                                 |
| H271           | May cause fire or explosion; strong oxidiser.             |
| H272           | May intensify fire; oxidiser.                             |
| H302           | Harmful if swallowed.                                     |
| H302+H312+H332 | Harmful if swallowed, in contact with skin or if inhaled. |
| H302+H332      | Harmful if swallowed or if inhaled.                       |
| H314           | Causes severe skin burns and eye damage.                  |
| H315           | Causes skin irritation.                                   |
| H318           | Causes serious eye damage.                                |

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|      |                                   |
|------|-----------------------------------|
| H319 | Causes serious eye irritation.    |
| H332 | Harmful if inhaled.               |
| H335 | May cause respiratory irritation. |
| H400 | Very toxic to aquatic life.       |

#### Guidelines for safe handling used in the safety data sheet

|                |  |
|----------------|--|
| P261           | Avoid breathing mist/vapours/spray.  |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection.   |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308+P313      | IF exposed or concerned: Get medical advice/attention.   |

#### Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

#### Key to abbreviations and acronyms used in the safety data sheet

|                  |   |
|------------------|---|
| Acute Tox.       | Acute toxicity  |
| ADR              | European agreement concerning the international carriage of dangerous goods by road               |
| Aquatic Acute    | Hazardous to the aquatic environment  |
| BCF              | Bioconcentration Factor   |
| CAS              | Chemical Abstracts Service  |
| CLP              | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures |
| EC               | Identification code for each substance listed in EINECS   |
| EC <sub>50</sub> | Concentration of a substance when it is affected 50 % of the population                           |
| EINECS           | European Inventory of Existing Commercial Chemical Substances                                     |
| EmS              | Emergency plan  |
| EU               | European Union  |
| EuPCS            | European Product Categorisation System  |
| Eye Dam.         | Serious eye damage  |
| Eye Irrit.       | Eye irritation  |
| Flam. Liq.       | Flammable liquid  |
| IATA             | International Air Transport Association   |
| IBC              | International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals       |
| ICAO             | International Civil Aviation Organization   |
| IMDG             | International Maritime Dangerous Goods  |
| IMO              | International Maritime Organization   |
| INCI             | International Nomenclature of Cosmetic Ingredients  |
| ISO              | International Organization for Standardization  |
| IUPAC            | International Union of Pure and Applied Chemistry   |
| LC <sub>50</sub> | Lethal concentration of a substance in which it can be expected death of 50% of the population    |
| LD <sub>50</sub> | Lethal dose of a substance in which it can be expected death of 50% of the population             |
| log Kow          | Octanol-water partition coefficient   |
| OEL              | Occupational Exposure Limits  |
| Org. Perox.      | Organic peroxide  |
| Ox. Liq.         | Oxidising liquid  |
| PBT              | Persistent, bioaccumulative and toxic   |
| PMT              | Persistent, mobile and toxic  |
| ppm              | Parts per million   |
| REACH            | Registration, Evaluation, Authorisation and Restriction of Chemicals                              |
| RID              | Agreement on the transport of dangerous goods by rail   |

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|             |   |
|-------------|---|
| Skin Corr.  | Skin corrosion  |
| Skin Irrit. | Skin irritation   |
| STOT SE     | Specific target organ toxicity - single exposure  |
| UN          | Four-figure identification number of the substance or article taken from the UN Model Regulations |
| UVCB        | Substances of unknown or variable composition, complex reaction products or biological materials  |
| VOC         | Volatile organic compounds  |
| vPvB        | Very persistent and very bioaccumulative  |
| vPvM        | Very persistent and very mobile   |

#### Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

#### Recommended restrictions of use

not available

#### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended.  
REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

#### The changes (which information has been added, deleted or modified)

The version 5.0 replaces the SDS version from Tuesday, 9 July 2024. Changes were made in sections 2, 3, 11, 12, 13 and 16.

#### More information

Classification procedure - calculation method.

#### Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.