

# PERBAC (PAA)

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 09/11/2023 Revision date: 06/02/2024 Supersedes version of: 12/12/2023 Version: 2.0

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : PERBAC (PAA)  
UFI : C810-X01F-F00X-Y2M3  
Product code : HLP4  
Type of product : Biocidal products (e.g. Disinfectants, pest control)  
Product group : End product

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

##### Relevant identified uses

Main use category : Professional use  
Use of the substance/mixture : Disinfectant

##### Uses advised against

Restrictions on use : Not for consumer sale or use

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

##### Supplier

Kersia  
Gateway House  
Pilsworth Road  
Pilsworth Industrial Estate  
BL9 8RD Bury  
Great Britain  
T +44 (0) 1706 222288, F +44 (0) 1706 221550  
[info@holchem.co.uk](mailto:info@holchem.co.uk), [www.holchem.co.uk](http://www.holchem.co.uk)

##### Supplier

Kersia Deutschland GmbH  
MARIE-CURIE STRASSE 23  
53332 BORNHEIM-SECHTEM  
T +44 (0) 1706 222288, F +44 (0) 1706 221550  
[info@holchem.co.uk](mailto:info@holchem.co.uk), [www.holchem.co.uk](http://www.holchem.co.uk)

##### Authorisation Holder

Holchem Ireland Limited  
Trinity House  
Charleston Road  
Ranelagh Dublin 6

#### 1.4. Emergency telephone number

Emergency number : +44 (0) 1865 407333

| Country/Area | Organisation/Company                                     | Address                                  | Emergency number                                                                                       | Comment |
|--------------|----------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------------------------|---------|
| Ireland      | National Poisons Information Centre<br>Beaumont Hospital | PO Box 1297<br>Beaumont Road<br>9 Dublin | +353 1 809 2566<br>(Healthcare professionals-<br>24/7)<br>+353 1 809 2166 (public,<br>8am - 10pm, 7/7) |         |

### SECTION 2: Hazards identification

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

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Organic Peroxides, Type F H242  
Corrosive to metals, Category 1 H290  
Acute toxicity (oral), Category 4 H302  
Acute toxicity (dermal), Category 4 H312  
Acute toxicity (inhalation:dust,mist) Category 4 H332  
Skin corrosion/irritation, Category 1, Sub-Category 1A H314  
Serious eye damage/eye irritation, Category 1 H318

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Specific target organ toxicity – Single exposure, Category 3, H335  
Respiratory tract irritation  
Hazardous to the aquatic environment – Chronic Hazard, H410  
Category 1  
Full text of H- and EUH-statements: see section 16

### Adverse physicochemical, human health and environmental effects

Heating may cause a fire. May be corrosive to metals. Harmful in contact with skin. Harmful if inhaled. Harmful if swallowed. May cause respiratory irritation. Causes severe skin burns and eye damage. Causes serious eye damage. Very toxic to aquatic life with long lasting effects.

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazard pictograms (CLP)        | :<br><div></div> <div>GHS02      GHS05      GHS07      GHS09</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Signal word (CLP)              | : Danger                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Contains                       | : acetic acid ... %; hydrogen peroxide solution... %; peracetic acid . . . %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Hazard statements (CLP)        | : H242 - Heating may cause a fire.<br>H290 - May be corrosive to metals.<br>H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled.<br>H314 - Causes severe skin burns and eye damage.<br>H410 - Very toxic to aquatic life with long lasting effects.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Precautionary statements (CLP) | : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.<br>No smoking.<br>P234 - Keep only in original packaging.<br>P260 - Do not breathe vapours, spray.<br>P264 - Wash Any exposed skin thoroughly after handling.<br>P273 - Avoid release to the environment.<br>P271 - Use only outdoors or in a well-ventilated area.<br>P280 - Wear eye protection, protective gloves, protective clothing, face protection.<br>P301+P330+P331+P310 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.<br>Immediately call a POISON CENTER, a doctor.<br>P303+P361+P353+P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER, a doctor.<br>P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER, a doctor.<br>P363 - Wash contaminated clothing before reuse.<br>P390 - Absorb spillage to prevent material damage.<br>P391 - Collect spillage.<br>P403+P233 - Store in a well-ventilated place. Keep container tightly closed.<br>P411 - Store at temperatures not exceeding 30 °C 86 °F.<br>P501 - Dispose of contents and container to a hazardous or special waste collection point. |
| EUH-statements                 | : EUH071 - Corrosive to the respiratory tract.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Extra phrases                  | : Use biocides safely. Always read the label and product information before use.<br>Acquisition, possession or use by the general public is restricted.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII  
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII  
Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

| Component                                                                                     |                                                                                                            |
|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII  | acetic acid ... % (64-19-7), hydrogen peroxide solution... % (7722-84-1), peracetic acid . . . % (79-21-0) |
| Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII | acetic acid ... % (64-19-7), hydrogen peroxide solution... % (7722-84-1), peracetic acid . . . % (79-21-0) |

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The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

| Component                                                                                                                                                                                                                                                                                                                               |                                                                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Substance(s) not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 | hydrogen peroxide solution... % (7722-84-1), acetic acid ... % (64-19-7), peracetic acid . . % (79-21-0) |

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

| Name                                                                                                                               | Product identifier                                                                                  | %            | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| hydrogen peroxide solution... %<br>substance with national workplace exposure limit(s) (IE)                                        | CAS-No.: 7722-84-1<br>EC-No.: 231-765-0<br>EC Index-No.: 008-003-00-9<br>REACH-no: 01-2119485845-22 | ≥ 10 – < 25  | Ox. Liq. 1, H271<br>Acute Tox. 4 (Oral), H302 (ATE=431 mg/kg bodyweight)<br>Acute Tox. 4 (Inhalation), H332 (ATE=1.5 mg/l/4h)<br>Skin Corr. 1A, H314<br>STOT SE 3, H335<br>Aquatic Chronic 3, H412                                                                                                                                                              |
| acetic acid ... %<br>substance with national workplace exposure limit(s) (IE); substance with a Community workplace exposure limit | CAS-No.: 64-19-7<br>EC-No.: 200-580-7<br>EC Index-No.: 607-002-00-6<br>REACH-no: 01-2119475328-30   | ≥ 5 – < 10   | Flam. Liq. 3, H226<br>Skin Corr. 1A, H314                                                                                                                                                                                                                                                                                                                       |
| peracetic acid . . . %<br>(Active substance (Biocide))<br>substance with national workplace exposure limit(s) (IE)                 | CAS-No.: 79-21-0<br>EC-No.: 201-186-8<br>EC Index-No.: 607-094-00-8                                 | ≥4.5 – 5.5 ≤ | Flam. Liq. 3, H226<br>Org. Perox. D, H242<br>Acute Tox. 3 (Oral), H301 (ATE=85 mg/kg bodyweight)<br>Acute Tox. 2 (Dermal), H310 (ATE=56.1 mg/kg bodyweight)<br>Acute Tox. 2 (Inhalation:dust,mist), H330 (ATE=0.204 mg/l/4h)<br>Skin Corr. 1A, H314<br>Eye Dam. 1, H318<br>STOT SE 3, H335<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 (M=10)<br>EUH071 |

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| Specific concentration limits:                         |                                                                                                     |                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name                                                   | Product identifier                                                                                  | Specific concentration limits (%)                                                                                                                                                                                                                                                      |
| hydrogen peroxide solution... %                        | CAS-No.: 7722-84-1<br>EC-No.: 231-765-0<br>EC Index-No.: 008-003-00-9<br>REACH-no: 01-2119485845-22 | (5 ≤ C < 8) Eye Irrit. 2; H319<br>(8 ≤ C < 50) Eye Dam. 1; H318<br>(35 ≤ C < 50) Skin Irrit. 2; H315<br>(35 ≤ C ≤ 100) STOT SE 3; H335<br>(50 ≤ C < 70) Ox. Liq. 2; H272<br>(50 ≤ C < 70) Skin Corr. 1B; H314<br>(70 ≤ C ≤ 100) Ox. Liq. 1; H271<br>(70 ≤ C ≤ 100) Skin Corr. 1A; H314 |
| acetic acid ... %                                      | CAS-No.: 64-19-7<br>EC-No.: 200-580-7<br>EC Index-No.: 607-002-00-6<br>REACH-no: 01-2119475328-30   | (10 ≤ C < 25) Skin Irrit. 2; H315<br>(10 ≤ C < 25) Eye Irrit. 2; H319<br>(25 ≤ C < 90) Skin Corr. 1B; H314<br>(90 ≤ C ≤ 100) Skin Corr. 1A; H314                                                                                                                                       |
| peracetic acid . . . %<br>(Active substance (Biocide)) | CAS-No.: 79-21-0<br>EC-No.: 201-186-8<br>EC Index-No.: 607-094-00-8                                 | (1 ≤ C < 100) STOT SE 3; H335                                                                                                                                                                                                                                                          |

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |                                                                                                                                                                                                                                                   |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.                                                                                                          |
| First-aid measures after skin contact | : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Continue rinsing. Get medical advice/attention. Burns should be treated by doctor. Wash contaminated clothing before reuse. |
| First-aid measures after eye contact  | : Immediately rinse with water for a prolonged period while holding the eyelids wide open. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.                                            |
| First-aid measures after ingestion    | : Rinse mouth. Do not induce vomiting. Get immediate medical advice/attention.                                                                                                                                                                    |

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

|                                     |                                                                                                                                                            |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects after inhalation   | : Corrosive to the respiratory tract. Inhalation may cause irritation (cough, short breathing, difficulty in breathing). May cause respiratory irritation. |
| Symptoms/effects after skin contact | : Causes severe burns. May cause immediate skin irritation and blistering. Burns.                                                                          |
| Symptoms/effects after eye contact  | : Serious damage to eyes.                                                                                                                                  |
| Symptoms/effects after ingestion    | : Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. Burns.                                                              |

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                              |                                                  |
|------------------------------|--------------------------------------------------|
| Suitable extinguishing media | : Water spray. Dry powder. Foam. Carbon dioxide. |
|------------------------------|--------------------------------------------------|

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

|                                                  |                                                                                                                           |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Fire hazard                                      | : May cause or intensify fire; oxidiser.                                                                                  |
| Hazardous decomposition products in case of fire | : Toxic and corrosive fumes are released. Carbon oxides (CO, CO <sub>2</sub> ). Sulfur oxides (SO <sub>x</sub> ). Oxygen. |

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### 5.3. Advice for firefighters

|                                |                                                                                                                                                                                                                                                         |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautionary measures fire    | : Do not allow water used to extinguish fire to enter drains, ground or waterways. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.                                                    |
| Firefighting instructions      | : Prevent fire fighting water from entering the environment. Cool laterally with water containers exposed to flames, even after the fire is extinguished. Do not enter fire area without proper protective equipment, including respiratory protection. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.                                                                                                                |

## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

|                      |                                                                                                                                                        |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Emergency procedures | : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin, eyes and clothing. Do not breathe mist, vapours, spray. |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|

#### For emergency responders

|                      |                                                                                                                                                                                                             |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. Wear recommended personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures | : Evacuate unnecessary personnel. Stop leak if safe to do so.                                                                                                                                               |

### 6.2. Environmental precautions

Avoid release to the environment.

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

|                         |                                                                                                                                                                                                                                                      |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For containment         | : Stop leak without risks if possible. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.                                                                                                            |
| Methods for cleaning up | : Absorb with an inert material and place in an appropriate waste disposal container. This material and its container must be disposed of in a safe way, and as per local legislation. Notify authorities if product enters sewers or public waters. |
| Other information       | : Place in an appropriate container and dispose of the contaminated material at a licensed site.                                                                                                                                                     |

### 6.4. Reference to other sections

For further information refer to section 13. For further information refer to section 8: "Exposure controls/personal protection".

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

|                               |                                                                                                                                                                                                                                                                        |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautions for safe handling | : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Use only outdoors or in a well-ventilated area. Do not breathe mist, vapours, spray. |
| Hygiene measures              | : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.                                                                                                                           |

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

|                        |                                                                                                                                                                                                                                                                                |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Technical measures     | : Keep in a cool, well-ventilated place away from heat.                                                                                                                                                                                                                        |
| Storage conditions     | : Keep in the dark. Store away from other materials. Protect from sunlight. Keep only in original container. Keep cool. Store in corrosive resistant container with a resistant inner liner. Store locked up. Store in a well-ventilated place. Keep container tightly closed. |
| Incompatible products  | : Refer to Section 10 on Incompatible Materials.                                                                                                                                                                                                                               |
| Maximum storage period | : ≤ 6 months                                                                                                                                                                                                                                                                   |
| Storage temperature    | : > 0 – ≤ 30 °C                                                                                                                                                                                                                                                                |
| Packaging materials    | : Keep only in the original container in a cool, well-ventilated place away from combustible materials.                                                                                                                                                                        |

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### 7.3. Specific end use(s)

See Section 1.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### National occupational exposure and biological limit values

| acetic acid ... % (64-19-7)                        |                                                       |
|----------------------------------------------------|-------------------------------------------------------|
| EU - Indicative Occupational Exposure Limit (IOEL) |                                                       |
| Local name                                         | Acetic acid                                           |
| IOEL TWA                                           | 25 mg/m <sup>3</sup>                                  |
|                                                    | 10 ppm                                                |
| IOEL STEL                                          | 50 mg/m <sup>3</sup>                                  |
|                                                    | 20 ppm                                                |
| Regulatory reference                               | COMMISSION DIRECTIVE (EU) 2017/164                    |
| Ireland - Occupational Exposure Limits             |                                                       |
| Local name                                         | Acetic acid                                           |
| OEL TWA                                            | 25 mg/m <sup>3</sup>                                  |
|                                                    | 10 ppm                                                |
| OEL STEL                                           | 50 mg/m <sup>3</sup>                                  |
|                                                    | 20 ppm                                                |
| Remark                                             | IOELV (Indicative Occupational Exposure Limit Values) |
| Regulatory reference                               | Chemical Agents Code of Practice 2021                 |
| hydrogen peroxide solution... % (7722-84-1)        |                                                       |
| Ireland - Occupational Exposure Limits             |                                                       |
| Local name                                         | Hydrogen peroxide                                     |
| OEL TWA                                            | 1.5 mg/m <sup>3</sup>                                 |
|                                                    | 1 ppm                                                 |
| OEL STEL                                           | 3 mg/m <sup>3</sup>                                   |
|                                                    | 2 ppm                                                 |
| Regulatory reference                               | Chemical Agents Code of Practice 2021                 |
| peracetic acid . . . % (79-21-0)                   |                                                       |
| Ireland - Occupational Exposure Limits             |                                                       |
| Local name                                         | Peracetic acid                                        |
| OEL STEL                                           | 0.4 ppm IFV (Inhlabile Fraction and Vapour)           |
| Regulatory reference                               | Chemical Agents Code of Practice 2021                 |

#### DNEL and PNEC

| acetic acid ... % (64-19-7)       |                      |
|-----------------------------------|----------------------|
| DNEL/DMEL (Workers)               |                      |
| Acute - local effects, inhalation | 25 mg/m <sup>3</sup> |

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|                                                    |                  |
|----------------------------------------------------|------------------|
| <b>acetic acid ... % (64-19-7)</b>                 |                  |
| Long-term - local effects, inhalation              | 25 mg/m³         |
| <b>DNEL/DMEL (General population)</b>              |                  |
| Acute - local effects, inhalation                  | 25 mg/m³         |
| Long-term - local effects, inhalation              | 25 mg/m³         |
| <b>PNEC (Water)</b>                                |                  |
| PNEC aqua (freshwater)                             | 3.058 mg/l       |
| PNEC aqua (marine water)                           | 0.3058 mg/l      |
| PNEC aqua (intermittent, freshwater)               | 30.58 mg/l       |
| <b>PNEC (Sediment)</b>                             |                  |
| PNEC sediment (freshwater)                         | 11.36 mg/kg dwt  |
| PNEC sediment (marine water)                       | 1.136 mg/kg dwt  |
| <b>PNEC (Soil)</b>                                 |                  |
| PNEC soil                                          | 0.47 mg/kg dwt   |
| <b>PNEC (STP)</b>                                  |                  |
| PNEC sewage treatment plant                        | 85 mg/l          |
| <b>hydrogen peroxide solution... % (7722-84-1)</b> |                  |
| <b>DNEL/DMEL (Workers)</b>                         |                  |
| Acute - local effects, inhalation                  | 3 mg/m³          |
| Long-term - local effects, inhalation              | 1.4 mg/m³        |
| <b>DNEL/DMEL (General population)</b>              |                  |
| Acute - local effects, inhalation                  | 1.93 mg/m³       |
| Long-term - local effects, inhalation              | 0.21 mg/m³       |
| <b>PNEC (Water)</b>                                |                  |
| PNEC aqua (freshwater)                             | 0.0126 mg/l      |
| PNEC aqua (marine water)                           | 0.0126 mg/l      |
| PNEC aqua (intermittent, freshwater)               | 0.0138 mg/l      |
| <b>PNEC (Sediment)</b>                             |                  |
| PNEC sediment (freshwater)                         | 0.047 mg/kg dwt  |
| PNEC sediment (marine water)                       | 0.047 mg/kg dwt  |
| <b>PNEC (Soil)</b>                                 |                  |
| PNEC soil                                          | 0.0023 mg/kg dwt |
| <b>PNEC (STP)</b>                                  |                  |
| PNEC sewage treatment plant                        | 4.66 mg/l        |
| <b>peracetic acid . . . % (79-21-0)</b>            |                  |
| <b>DNEL/DMEL (Workers)</b>                         |                  |
| Acute - local effects, inhalation                  | 560 µg/m³        |
| Long-term - local effects, inhalation              | 560 µg/m³        |

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| peracetic acid . . . % (79-21-0)      |               |
|---------------------------------------|---------------|
| DNEL/DMEL (General population)        |               |
| Acute - local effects, inhalation     | 280 µg/m³     |
| Long-term - local effects, inhalation | 280 µg/m³     |
| PNEC (Water)                          |               |
| PNEC aqua (freshwater)                | 94 µg/L       |
| PNEC aqua (marine water)              | 9.4 µg/L      |
| PNEC aqua (intermittent, freshwater)  | 1.6 µg/L      |
| PNEC (Sediment)                       |               |
| PNEC sediment (freshwater)            | 3.5 µg/kg dw  |
| PNEC sediment (marine water)          | 0.35 µg/kg dw |
| PNEC (STP)                            |               |
| PNEC sewage treatment plant           | 51 µg/L       |

## 8.2. Exposure controls

### Appropriate engineering controls

#### Appropriate engineering controls:

Do not exceed the occupational exposure limits (OEL). Provide adequate ventilation. Ensure good ventilation of the work station.

### Personal protection equipment

#### Personal protective equipment:

Safety glasses. Wear protective gloves. Wear protective clothing.

#### Personal protective equipment symbol(s):



### Eye and face protection

#### Eye protection:

Safety glasses (EN 166). Safety glasses

### Skin protection

#### Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

Protective gloves against chemicals (EN 374). preferably. Butyl rubber

### Respiratory protection

#### Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

### Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

|                |                            |
|----------------|----------------------------|
| Physical state | : Liquid                   |
| Colour         | : Colourless.              |
| Appearance     | : Clear, colorless liquid. |



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|                                                 |                             |
|-------------------------------------------------|-----------------------------|
| Odour                                           | : Pungent.                  |
| Odour threshold                                 | : Not available             |
| Melting point                                   | : -15 °C                    |
| Freezing point                                  | : Not available             |
| Boiling point                                   | : Not available             |
| Flammability                                    | : Heating may cause a fire. |
| Lower explosion limit                           | : Not available             |
| Upper explosion limit                           | : Not available             |
| Flash point                                     | : Not available             |
| Auto-ignition temperature                       | : Not available             |
| Decomposition temperature                       | : Not available             |
| SADT                                            | : 55 °C                     |
| pH                                              | : < 1.5                     |
| pH solution concentration                       | : 100 %                     |
| Viscosity, kinematic                            | : 1.25 mm²/s                |
| Solubility                                      | : Soluble in water.         |
| Partition coefficient n-octanol/water (Log Kow) | : Not available             |
| Vapour pressure                                 | : Not available             |
| Vapour pressure at 50°C                         | : Not available             |
| Density                                         | : 1.13 kg/l                 |
| Relative density                                | : Not available             |
| Relative vapour density at 20°C                 | : Not available             |
| Particle characteristics                        | : Not applicable            |

### 9.2. Other information

#### Information with regard to physical hazard classes

Corroded metals : Aluminium,Steel

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Heating may cause a fire.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

Acids. Bases. Reducing agents. Flammable or combustible materials. Hydrocarbons. Organic materials. Ammonia. Amines. Ethers. May be corrosive to metals. Carbon steel. Mild steel. Aluminium. Oxidising agents. copper. Iron. Combustible materials. metals.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition generates : Carbon oxides (CO, CO2). Oxygen. Sulphur oxides.

## SECTION 11: Toxicological information

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

|                             |                                             |
|-----------------------------|---------------------------------------------|
| Acute toxicity (oral)       | : Harmful if swallowed.                     |
| Acute toxicity (dermal)     | : Harmful in contact with skin.             |
| Acute toxicity (inhalation) | : Inhalation:dust,mist: Harmful if inhaled. |

# PERBAC (PAA)

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| PERBAC (PAA)                                |                                                                                                                  |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| ATE CLP (oral)                              | 814 mg/kg bodyweight                                                                                             |
| ATE CLP (dermal)                            | 1020 mg/kg bodyweight                                                                                            |
| ATE CLP (dust,mist)                         | 2.314 mg/l/4h                                                                                                    |
| acetic acid ... % (64-19-7)                 |                                                                                                                  |
| LD50 oral rat                               | 3310 mg/kg bodyweight Animal: rat                                                                                |
| LD50 oral                                   | 4960 mg/kg bodyweight Animal: mouse                                                                              |
| LC50 Inhalation - Rat (Vapours)             | 11.4 mg/l/4h                                                                                                     |
| hydrogen peroxide solution... % (7722-84-1) |                                                                                                                  |
| LD50 oral rat                               | 431 mg/kg                                                                                                        |
| LD50 dermal rabbit                          | > 2000 mg/kg bodyweight Animal: rabbit, Guideline: other:, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
| peracetic acid ... % (79-21-0)              |                                                                                                                  |
| LD50 oral rat                               | 85 mg/kg                                                                                                         |
| LD50 dermal rabbit                          | 56.1 mg/kg                                                                                                       |
| LC50 Inhalation - Rat (Dust/Mist)           | 0.204 mg/l/4h                                                                                                    |
| Skin corrosion/irritation                   | : Causes severe skin burns.<br>pH: < 1.5                                                                         |
| acetic acid ... % (64-19-7)                 |                                                                                                                  |
| pH                                          | 2.4                                                                                                              |
| Serious eye damage/irritation               | : Causes serious eye damage.<br>pH: < 1.5                                                                        |
| acetic acid ... % (64-19-7)                 |                                                                                                                  |
| pH                                          | 2.4                                                                                                              |
| Respiratory or skin sensitisation           | : Not classified                                                                                                 |
| Germ cell mutagenicity                      | : Not classified                                                                                                 |
| Carcinogenicity                             | : Not classified                                                                                                 |
| Reproductive toxicity                       | : Not classified                                                                                                 |
| STOT-single exposure                        | : May cause respiratory irritation.                                                                              |
| hydrogen peroxide solution... % (7722-84-1) |                                                                                                                  |
| STOT-single exposure                        | May cause respiratory irritation.                                                                                |
| peracetic acid ... % (79-21-0)              |                                                                                                                  |
| STOT-single exposure                        | May cause respiratory irritation.                                                                                |
| STOT-repeated exposure                      | : Not classified                                                                                                 |
| acetic acid ... % (64-19-7)                 |                                                                                                                  |
| NOAEL (oral, rat, 90 days)                  | 290 mg/kg bodyweight Animal: rat, Animal sex: male                                                               |
| Aspiration hazard                           | : Not classified                                                                                                 |
| PERBAC (PAA)                                |                                                                                                                  |
| Viscosity, kinematic                        | 1.25 mm²/s                                                                                                       |
| acetic acid ... % (64-19-7)                 |                                                                                                                  |
| Viscosity, kinematic                        | 1.015 mm²/s                                                                                                      |

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### 11.2. Information on other hazards

#### Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties

: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.  
Hazardous to the aquatic environment, short-term (acute) : Not classified  
Hazardous to the aquatic environment, long-term (chronic) : Very toxic to aquatic life with long lasting effects.

#### acetic acid ... % (64-19-7)

|                      |                                                                                              |
|----------------------|----------------------------------------------------------------------------------------------|
| LC50 - Fish [1]      | > 1000 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)   |
| LC50 - Fish [2]      | > 300.82 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |
| EC50 - Crustacea [1] | > 1000 mg/l Test organisms (species): Daphnia magna                                          |
| EC50 - Crustacea [2] | > 300.82 mg/l Test organisms (species): Daphnia magna                                        |
| EC50 72h - Algae [1] | > 1000 mg/l Test organisms (species): Skeletonema costatum                                   |
| EC50 72h - Algae [2] | > 300.82 mg/l Test organisms (species): Skeletonema costatum                                 |

#### hydrogen peroxide solution... % (7722-84-1)

|                      |                                                                    |
|----------------------|--------------------------------------------------------------------|
| LC50 - Fish [1]      | 16.4 mg/l Test organisms (species): Pimephales promelas            |
| EC50 - Crustacea [1] | 2.4 mg/l                                                           |
| EC50 72h - Algae [1] | 1.38 mg/l Test organisms (species): Skeletonema costatum           |
| ErC50 algae          | 1.38 mg/l Skeletonema costatum (marine diatom)                     |
| LOEC (chronic)       | 1.25 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC (chronic)       | 0.63 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |

#### peracetic acid . . . % (79-21-0)

|                        |                                             |
|------------------------|---------------------------------------------|
| LC50 - Fish [1]        | 1.1 mg/l                                    |
| EC50 - Crustacea [1]   | 0.73 mg/l                                   |
| EC50 72h - Algae [1]   | 0.16 mg/l Selenastrum capricornutum         |
| NOEC chronic fish      | 0.00094 mg/l Brachydanio rerio (zebra-fish) |
| NOEC chronic crustacea | 0.012 mg/l Daphnia magna (Water flea)       |
| NOEC chronic algae     | 0.061 mg/l Selenastrum capricornutum        |

### 12.2. Persistence and degradability

#### PERBAC (PAA)

|                               |                               |
|-------------------------------|-------------------------------|
| Persistence and degradability | Expected to be biodegradable. |
|-------------------------------|-------------------------------|

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| acetic acid ... % (64-19-7)   |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Readily biodegradable. |
| Biodegradation                | 96 %                   |

| hydrogen peroxide solution... % (7722-84-1) |                    |
|---------------------------------------------|--------------------|
| Persistence and degradability               | Rapidly degradable |

| peracetic acid ... % (79-21-0) |                        |
|--------------------------------|------------------------|
| Persistence and degradability  | Readily biodegradable. |

### 12.3. Bioaccumulative potential

| PERBAC (PAA)              |                 |
|---------------------------|-----------------|
| Bioaccumulative potential | Not determined. |

| acetic acid ... % (64-19-7)                     |                           |
|-------------------------------------------------|---------------------------|
| Partition coefficient n-octanol/water (Log Kow) | -0.17                     |
| Bioaccumulative potential                       | Bioaccumulation unlikely. |

| hydrogen peroxide solution... % (7722-84-1) |                           |
|---------------------------------------------|---------------------------|
| Bioaccumulative potential                   | Bioaccumulation unlikely. |

| peracetic acid ... % (79-21-0)                  |                               |
|-------------------------------------------------|-------------------------------|
| Partition coefficient n-octanol/water (Log Pow) | -0.46                         |
| Additional information                          | Low bioaccumulation potential |

### 12.4. Mobility in soil

| acetic acid ... % (64-19-7)                                |     |
|------------------------------------------------------------|-----|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 1.2 |

| hydrogen peroxide solution... % (7722-84-1) |                               |
|---------------------------------------------|-------------------------------|
| Ecology - soil                              | Can be leached out from soil. |

| peracetic acid ... % (79-21-0) |                                  |
|--------------------------------|----------------------------------|
| Additional information         | Material highly soluble in water |

### 12.5. Results of PBT and vPvB assessment

| PERBAC (PAA)                                                                           |  |
|----------------------------------------------------------------------------------------|--|
| This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII  |  |
| This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |  |

| Component                                                                                     |                                                                                                          |
|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII  | acetic acid ... % (64-19-7), hydrogen peroxide solution... % (7722-84-1), peracetic acid ... % (79-21-0) |
| Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII | acetic acid ... % (64-19-7), hydrogen peroxide solution... % (7722-84-1), peracetic acid ... % (79-21-0) |

### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The substance/mixture has no endocrine disrupting properties.

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### 12.7. Other adverse effects

Other adverse effects : May cause pH changes in aqueous ecological systems.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional waste regulation : Disposal must be done according to official regulations.  
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Sewage disposal recommendations : Disposal must be done according to official regulations.  
Product/Packaging disposal recommendations : Disposal must be done according to official regulations.  
Additional information : Do not re-use empty containers.

## SECTION 14: Transport information

In accordance with ADR / IMDG / ADN / RID

| ADR                                                                                                                        | IMDG                                                                                                                                   | ADN                                                                                                                   | RID                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>14.1. UN number or ID number</b>                                                                                        |                                                                                                                                        |                                                                                                                       |                                                                                                                       |
| UN 3109                                                                                                                    | UN 3109                                                                                                                                | UN 3109                                                                                                               | UN 3109                                                                                                               |
| <b>14.2. UN proper shipping name</b>                                                                                       |                                                                                                                                        |                                                                                                                       |                                                                                                                       |
| ORGANIC PEROXIDE TYPE F, LIQUID ((PEROXYACETIC ACID, TYPE F, stabilized))                                                  | ORGANIC PEROXIDE TYPE F, LIQUID ((PEROXYACETIC ACID, TYPE F, stabilized))                                                              | ORGANIC PEROXIDE TYPE F, LIQUID ((PEROXYACETIC ACID, TYPE F, stabilized))                                             | ORGANIC PEROXIDE TYPE F, LIQUID ((PEROXYACETIC ACID, TYPE F, stabilized))                                             |
| <b>Transport document description</b>                                                                                      |                                                                                                                                        |                                                                                                                       |                                                                                                                       |
| UN 3109 ORGANIC PEROXIDE TYPE F, LIQUID ((PEROXYACETIC ACID, TYPE F, stabilized)), 5.2 (8), (D), ENVIRONMENTALLY HAZARDOUS | UN 3109 ORGANIC PEROXIDE TYPE F, LIQUID ((PEROXYACETIC ACID, TYPE F, stabilized)), 5.2 (8), MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS | UN 3109 ORGANIC PEROXIDE TYPE F, LIQUID ((PEROXYACETIC ACID, TYPE F, stabilized)), 5.2 (8), ENVIRONMENTALLY HAZARDOUS | UN 3109 ORGANIC PEROXIDE TYPE F, LIQUID ((PEROXYACETIC ACID, TYPE F, stabilized)), 5.2 (8), ENVIRONMENTALLY HAZARDOUS |
| <b>14.3. Transport hazard class(es)</b>                                                                                    |                                                                                                                                        |                                                                                                                       |                                                                                                                       |
| 5.2 (8)                                                                                                                    | 5.2 (8)                                                                                                                                | 5.2 (8)                                                                                                               | 5.2 (8)                                                                                                               |
|                                                                                                                            |                                                                                                                                        |                                                                                                                       |                                                                                                                       |
| <b>14.4. Packing group</b>                                                                                                 |                                                                                                                                        |                                                                                                                       |                                                                                                                       |
| Not applicable                                                                                                             | Not applicable                                                                                                                         | Not applicable                                                                                                        | Not applicable                                                                                                        |
| <b>14.5. Environmental hazards</b>                                                                                         |                                                                                                                                        |                                                                                                                       |                                                                                                                       |
| Dangerous for the environment: Yes                                                                                         | Dangerous for the environment: Yes<br>Marine pollutant: Yes<br>EmS-No. (Fire): F-J<br>EmS-No. (Spillage): S-R                          | Dangerous for the environment: Yes                                                                                    | Dangerous for the environment: Yes                                                                                    |
| No supplementary information available                                                                                     |                                                                                                                                        |                                                                                                                       |                                                                                                                       |

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### 14.6. Special precautions for user

#### Overland transport

|                                                                         |                                   |
|-------------------------------------------------------------------------|-----------------------------------|
| Classification code (ADR)                                               | : P1                              |
| Special provisions (ADR)                                                | : 122, 274                        |
| Limited quantities (ADR)                                                | : 125ml                           |
| Excepted quantities (ADR)                                               | : E0                              |
| Packing instructions (ADR)                                              | : P520, IBC520                    |
| Mixed packing provisions (ADR)                                          | : MP4                             |
| Portable tank and bulk container instructions (ADR)                     | : T23                             |
| Tank code (ADR)                                                         | : L4BN(+)                         |
| Tank special provisions (ADR)                                           | : TU3, TU13, TU30, TE12, TA2, TM4 |
| Vehicle for tank carriage                                               | : AT                              |
| Transport category (ADR)                                                | : 2                               |
| Special provisions for carriage - Packages (ADR)                        | : V1                              |
| Special provisions for carriage - Loading, unloading and handling (ADR) | : CV15, CV22, CV24                |
| Hazard identification number (Kemler No.)                               | : 539                             |
| Orange plates                                                           | :                                 |



|                               |     |
|-------------------------------|-----|
| Tunnel restriction code (ADR) | : D |
|-------------------------------|-----|

#### Transport by sea

|                                    |                                                                                                                                                                                                                                                                                                        |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Special provisions (IMDG)          | : 122, 274                                                                                                                                                                                                                                                                                             |
| Limited quantities (IMDG)          | : 125 ml                                                                                                                                                                                                                                                                                               |
| Excepted quantities (IMDG)         | : E0                                                                                                                                                                                                                                                                                                   |
| Packing instructions (IMDG)        | : P520                                                                                                                                                                                                                                                                                                 |
| IBC packing instructions (IMDG)    | : IBC520                                                                                                                                                                                                                                                                                               |
| Tank instructions (IMDG)           | : T23                                                                                                                                                                                                                                                                                                  |
| Stowage category (IMDG)            | : D                                                                                                                                                                                                                                                                                                    |
| Stowage and handling (IMDG)        | : SW1                                                                                                                                                                                                                                                                                                  |
| Segregation (IMDG)                 | : SG35, SG36, SG72                                                                                                                                                                                                                                                                                     |
| Properties and observations (IMDG) | : Decomposes at elevated temperatures or in a fire. Burns vigorously. Immiscible with water except for tert-butylhydroperoxide; dibenzoyl peroxide; dilauroylperoxide and peroxyacetic acid, type F, stabilized. Contact with the eyes and skin should be avoided. May evolve irritant or toxic fumes. |

#### Inland waterway transport

|                                   |             |
|-----------------------------------|-------------|
| Classification code (ADN)         | : P1        |
| Special provisions (ADN)          | : 122, 274  |
| Limited quantities (ADN)          | : 125 ml    |
| Excepted quantities (ADN)         | : E0        |
| Equipment required (ADN)          | : PP, EX, A |
| Ventilation (ADN)                 | : VE01      |
| Number of blue cones/lights (ADN) | : 0         |

#### Rail transport

|                                                                         |                                   |
|-------------------------------------------------------------------------|-----------------------------------|
| Classification code (RID)                                               | : P1                              |
| Special provisions (RID)                                                | : 122, 274                        |
| Limited quantities (RID)                                                | : 125ml                           |
| Excepted quantities (RID)                                               | : E0                              |
| Packing instructions (RID)                                              | : P520, IBC520                    |
| Mixed packing provisions (RID)                                          | : MP4                             |
| Portable tank and bulk container instructions (RID)                     | : T23                             |
| Tank codes for RID tanks (RID)                                          | : L4BN(+)                         |
| Special provisions for RID tanks (RID)                                  | : TU3, TU13, TU30, TE12, TA2, TM4 |
| Transport category (RID)                                                | : 2                               |
| Special provisions for carriage – Packages (RID)                        | : W7                              |
| Special provisions for carriage - Loading, unloading and handling (RID) | : CW22, CW24, CW29                |

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Colis express (express parcels) (RID) : CE6  
Hazard identification number (RID) : 539

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

Not applicable

## SECTION 15: Regulatory information

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

#### EU-Regulations

##### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

##### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

##### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

##### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

##### Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

##### Biocide Regulation (528/2012)

Contains substance(s) listed on the Biocidal Products list (Regulation EU 528/2012 concerning the making available on the market and use of biocidal products)

Type of product (Biocide) :  
Authorisation number :  
Contains : peracetic acid . . . % (5.50 % (percentage))

##### Explosives Precursors Regulation (2019/1148)

Contains substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### ANNEX I RESTRICTED EXPLOSIVES PRECURSORS

List of substances which are not to be made available to, or introduced, possessed or used by, members of the general public, whether on their own or in mixtures or substances that include those substances, unless the concentration is equal to or lower than the limit values set out in column 2, and for which suspicious transactions and significant disappearances and thefts are to be reported within 24 hours.

| Name              | CAS-No.   | Limit value | Upper limit value for licensing under Article 5(3) | Combined Nomenclature (CN) code for a separate chemically defined compound meeting the requirements of Note 1 to Chapter 28 or 29 of the CN, respectively | Combined Nomenclature code for mixture without constituents which would determine classification under another CN code |
|-------------------|-----------|-------------|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Hydrogen peroxide | 7722-84-1 | 12 % w/w    | 35% w/w                                            | 2847 00 00                                                                                                                                                | ex 3824 99 96                                                                                                          |

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### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

### 15.2. Chemical safety assessment

For this preparation a chemical safety assessment has been carried out

## SECTION 16: Other information

| Abbreviations and acronyms: |                                                                                                 |
|-----------------------------|-------------------------------------------------------------------------------------------------|
| ADN                         | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR                         | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE                         | Acute Toxicity Estimate                                                                         |
| BCF                         | Bioconcentration factor                                                                         |
| BLV                         | Biological limit value                                                                          |
| BOD                         | Biochemical oxygen demand (BOD)                                                                 |
| COD                         | Chemical oxygen demand (COD)                                                                    |
| DMEL                        | Derived Minimal Effect level                                                                    |
| DNEL                        | Derived-No Effect Level                                                                         |
| EC-No.                      | European Community number                                                                       |
| EC50                        | Median effective concentration                                                                  |
| EN                          | European Standard                                                                               |
| IARC                        | International Agency for Research on Cancer                                                     |
| IATA                        | International Air Transport Association                                                         |
| IMDG                        | International Maritime Dangerous Goods                                                          |
| LC50                        | Median lethal concentration                                                                     |
| LD50                        | Median lethal dose                                                                              |
| LOAEL                       | Lowest Observed Adverse Effect Level                                                            |
| NOAEC                       | No-Observed Adverse Effect Concentration                                                        |
| NOAEL                       | No-Observed Adverse Effect Level                                                                |
| NOEC                        | No-Observed Effect Concentration                                                                |
| OECD                        | Organisation for Economic Co-operation and Development                                          |
| OEL                         | Occupational Exposure Limit                                                                     |
| PBT                         | Persistent Bioaccumulative Toxic                                                                |
| PNEC                        | Predicted No-Effect Concentration                                                               |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail                    |
| SDS                         | Safety Data Sheet                                                                               |
| STP                         | Sewage treatment plant                                                                          |
| ThOD                        | Theoretical oxygen demand (ThOD)                                                                |
| TLM                         | Median Tolerance Limit                                                                          |
| VOC                         | Volatile Organic Compounds                                                                      |
| CAS-No.                     | Chemical Abstract Service number                                                                |



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### Abbreviations and acronyms:

|        |                                          |
|--------|------------------------------------------|
| N.O.S. | Not Otherwise Specified                  |
| vPvB   | Very Persistent and Very Bioaccumulative |
| ED     | Endocrine disruptor                      |

### Full text of H- and EUH-statements:

|                                        |                                                                   |
|----------------------------------------|-------------------------------------------------------------------|
| Acute Tox. 2 (Dermal)                  | Acute toxicity (dermal), Category 2                               |
| Acute Tox. 2<br>(Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 2                  |
| Acute Tox. 3 (Oral)                    | Acute toxicity (oral), Category 3                                 |
| Acute Tox. 4 (Inhalation)              | Acute toxicity (inhal.), Category 4                               |
| Acute Tox. 4 (Oral)                    | Acute toxicity (oral), Category 4                                 |
| Aquatic Acute 1                        | Hazardous to the aquatic environment – Acute Hazard, Category 1   |
| Aquatic Chronic 1                      | Hazardous to the aquatic environment – Chronic Hazard, Category 1 |
| Aquatic Chronic 3                      | Hazardous to the aquatic environment – Chronic Hazard, Category 3 |
| EUH071                                 | Corrosive to the respiratory tract.                               |
| Eye Dam. 1                             | Serious eye damage/eye irritation, Category 1                     |
| Eye Irrit. 2                           | Serious eye damage/eye irritation, Category 2                     |
| Flam. Liq. 3                           | Flammable liquids, Category 3                                     |
| H226                                   | Flammable liquid and vapour.                                      |
| H242                                   | Heating may cause a fire.                                         |
| H271                                   | May cause fire or explosion; strong oxidiser.                     |
| H272                                   | May intensify fire; oxidiser.                                     |
| H290                                   | May be corrosive to metals.                                       |
| H301                                   | Toxic if swallowed.                                               |
| H302                                   | Harmful if swallowed.                                             |
| H310                                   | Fatal in contact with skin.                                       |
| H312                                   | Harmful in contact with skin.                                     |
| H314                                   | Causes severe skin burns and eye damage.                          |
| H315                                   | Causes skin irritation.                                           |
| H318                                   | Causes serious eye damage.                                        |
| H319                                   | Causes serious eye irritation.                                    |
| H330                                   | Fatal if inhaled.                                                 |
| H332                                   | Harmful if inhaled.                                               |
| H335                                   | May cause respiratory irritation.                                 |
| H400                                   | Very toxic to aquatic life.                                       |
| H410                                   | Very toxic to aquatic life with long lasting effects.             |
| H412                                   | Harmful to aquatic life with long lasting effects.                |
| Org. Perox. D                          | Organic Peroxides, Type D                                         |
| Ox. Liq. 1                             | Oxidising Liquids, Category 1                                     |

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### Full text of H- and EUH-statements:

|               |                                                                                            |
|---------------|--------------------------------------------------------------------------------------------|
| Ox. Liq. 2    | Oxidising Liquids, Category 2                                                              |
| Skin Corr. 1A | Skin corrosion/irritation, Category 1, Sub-Category 1A                                     |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B                                     |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2                                                      |
| STOT SE 3     | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation |

### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

|                                     |      |                       |
|-------------------------------------|------|-----------------------|
| Org. Perox. F                       | H242 | On basis of test data |
| Met. Corr. 1                        | H290 | Expert judgement      |
| Acute Tox. 4 (Oral)                 | H302 | Calculation method    |
| Acute Tox. 4 (Dermal)               | H312 | Calculation method    |
| Acute Tox. 4 (Inhalation:dust,mist) | H332 | Calculation method    |
| Skin Corr. 1A                       | H314 | Expert judgement      |
| Eye Dam. 1                          | H318 | On basis of test data |
| STOT SE 3                           | H335 | Calculation method    |
| Aquatic Chronic 1                   | H410 | Calculation method    |

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.