



# Macerator Cleaner

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
Reference number: Periodic review of SDS 26/08/2025  
Issue date: 05/02/2015 Revision date: 26/08/2022 Supersedes version of: 09/06/2022 Version: 1.7

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : Macerator Cleaner  
Product code : WP 1502

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

##### 1.2.1. Relevant identified uses

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

##### 1.2.2. Uses advised against

No additional information available

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

Wessex Chemical Factors Ltd  
17 Crane Way, Woolsbridge Industrial Park,  
Three Legged Cross, Wimborne, Dorset  
BH21 6FA  
United Kingdom  
T +44 (0) 1202 823 699 - F +44 (0) 1202 813 863  
[www.wessexchemicalfactors.co.uk](http://www.wessexchemicalfactors.co.uk)

E-mail address of competent person responsible for the SDS : [info@wessexchemicalfactors.co.uk](mailto:info@wessexchemicalfactors.co.uk)

#### 1.4. Emergency telephone number

Emergency number : +44 (0) 1202 823 699 (Office hours only 9am - 5pm Monday - Thursday, 9am - 4pm Friday.)  
+44 (0) 7973629367 (Out of hours emergency number)

### SECTION 2: Hazards identification

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

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

|   |      |
|---|------|
| Acute toxicity (oral), Category 4                                 | H302 |
| Skin corrosion/irritation, Category 1                             | H314 |
| Serious eye damage/eye irritation, Category 1                     | H318 |
| Hazardous to the aquatic environment – Chronic Hazard, Category 3 | H412 |

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

##### Adverse physicochemical, human health and environmental effects

Causes skin irritation. Causes serious eye irritation. Toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS05

GHS07

Signal word (CLP) :

Danger

Contains :

phosphoric acid 81%, orthophosphoric acid 81%

Hazard statements (CLP) :

H302 - Harmful if swallowed.

H314 - Causes severe skin burns and eye damage.

H412 - Harmful to aquatic life with long lasting effects.

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Precautionary statements (CLP) : P264 - Wash hands thoroughly after handling.  
P280 - Wear eye protection, protective gloves, protective clothing.  
P301+P330+P331+P310 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a doctor.  
P303+P361+P353+P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a doctor.  
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 doctor.

### 2.3. Other hazards

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name  | Product identifier   | Conc. (% w/w) | Classification according to Regulation (EC) No. 1272/2008 [CLP]   |
|---|--|---------------|---|
| phosphoric acid 81%, orthophosphoric acid 81% (Note B)                | CAS-No.: 7664-38-2<br>EC-No.: 231-633-2<br>EC Index-No.: 015-011-00-6<br>REACH-no: 01-2119485924-24-XXXX | 20 – 25       | Met. Corr. 1, H290<br>Acute Tox. 4 (Oral), H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318                                      |
| block copolymer of propylene and ethylene oxides                      | CAS-No.: 9003-11-6   | 0.5 – 1       | Not classified  |
| quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides | CAS-No.: 68424-85-1<br>EC-No.: 270-325-2<br>REACH-no: 01-2119965180-41                                   | 0.1 – 0.5     | Acute Tox. 4 (Oral), H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 1, H410 |
| polydimethylsiloxane  | CAS-No.: 63148-62-9  | < 0.01        | Not classified  |
| benzoic acid  | CAS-No.: 65-85-0<br>EC-No.: 200-618-2<br>EC Index-No.: 607-705-00-8<br>REACH-no: 01-2119455536-33-XXXX   | < 0.01        | Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>STOT RE 1, H372  |

### Specific concentration limits:

| Name  | Product identifier   | Specific concentration limits   |
|---|--|---|
| phosphoric acid 81%, orthophosphoric acid 81% | CAS-No.: 7664-38-2<br>EC-No.: 231-633-2<br>EC Index-No.: 015-011-00-6<br>REACH-no: 01-2119485924-24-XXXX | ( 10 $\leq$ C < 25) Eye Irrit. 2, H319<br>( 10 $\leq$ C < 25) Skin Irrit. 2, H315<br>( 25 $\leq$ C < 100) Skin Corr. 1B, H314 |

Note B : Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

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

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                                       |   |
|---------------------------------------|---|
| First-aid measures general            | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).                               |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.                          |
| First-aid measures after skin contact | : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.   |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. |
| First-aid measures after ingestion    | : Call a poison center or a doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.                                 |

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

|                                     |  |
|-------------------------------------|--|
| Symptoms/effects after inhalation   | : Irritation of the respiratory tract.       |
| Symptoms/effects after skin contact | : irritation (itching, redness, blistering). |
| Symptoms/effects after eye contact  | : Causes serious eye damage.                 |
| Symptoms/effects after ingestion    | : May be harmful if swallowed.               |

#### 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   | : Use extinguishing media appropriate for surrounding fire. Foam. Dry powder. Carbon dioxide. Water spray. Sand. |
| Unsuitable extinguishing media | : Use of heavy stream of water may spread fire. Do not use a heavy water stream.                                 |

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

|  |                                |
|--|--------------------------------|
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |
|--|--------------------------------|

#### 5.3. Advice for firefighters

|                                |  |
|--------------------------------|--|
| Firefighting instructions      | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.  |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Do not enter fire area without proper protective equipment, including respiratory protection. |

### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

|                      |  |
|----------------------|--|
| Emergency procedures | : Ventilate spillage area. Avoid contact with skin and eyes. Evacuate unnecessary personnel. |
|----------------------|--|

##### 6.1.2. For emergency responders

|                      |  |
|----------------------|--|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". Equip cleanup crew with proper protection. |
| Emergency procedures | : Ventilate area.  |

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

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

- For containment : Stop leak without risks if possible. Collect spillage.
- Methods for cleaning up : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
- Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13. See Section 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes. Wear personal protective equipment. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.
- Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash Both hands thoroughly after handling.

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

- Storage conditions : Store in a well-ventilated place. Keep cool. Keep only in the original container in a cool, well ventilated place away from : Direct sunlight. Keep container closed when not in use.
- Incompatible products : Strong bases. Strong acids.
- Incompatible materials : Sources of ignition. Direct sunlight.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

| phosphoric acid 81%, orthophosphoric acid 81% (7664-38-2) |                                       |
|---|---------------------------------------|
| <b>EU - Indicative Occupational Exposure Limit (IOEL)</b> |                                       |
| Local name  | Orthophosphoric acid                  |
| IOEL TWA  | 1 mg/m <sup>3</sup>                   |
| IOEL STEL   | 2 mg/m <sup>3</sup>                   |
| Regulatory reference                                      | COMMISSION DIRECTIVE 2000/39/EC       |
| <b>United Kingdom - Occupational Exposure Limits</b>      |                                       |
| Local name  | Orthophosphoric acid                  |
| WEL TWA (OEL TWA) [1]                                     | 1 mg/m <sup>3</sup>                   |
| WEL STEL (OEL STEL)                                       | 2 mg/m <sup>3</sup>                   |
| Regulatory reference                                      | EH40/2005 (Fourth edition, 2020). HSE |

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

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### 8.1.4. DNEL and PNEC

No additional information available

### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Safety glasses. Gloves. Avoid all unnecessary exposure.

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



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Chemical goggles or safety glasses

#### 8.2.2.2. Skin protection

##### Hand protection:

Wear protective gloves.

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

Wear appropriate mask

#### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

#### Other information:

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

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

|  |                     |
|--|---------------------|
| Physical state                             | : Liquid            |
| Colour                                     | : Colourless.       |
| Odour                                      | : characteristic.   |
| Odour threshold                            | : No data available |
| pH   | : < 2               |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point                              | : Not applicable    |
| Freezing point                             | : No data available |
| Boiling point                              | : No data available |
| Flash point                                | : No data available |
| Auto-ignition temperature                  | : No data available |
| Decomposition temperature                  | : No data available |
| Flammability (solid, gas)                  | : Non flammable.    |
| Vapour pressure                            | : No data available |
| Relative vapour density at 20 °C           | : No data available |

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|   |                          |
|---|--------------------------|
| Relative density                                | : No data available      |
| Density   | : 1.14 g/cm <sup>3</sup> |
| Solubility                                      | : soluble in water.      |
| Partition coefficient n-octanol/water (Log Pow) | : No data available      |
| Viscosity, kinematic                            | : No data available      |
| Viscosity, dynamic                              | : No data available      |
| Explosive properties                            | : No data available      |
| Oxidising properties                            | : No data available      |
| Explosive limits                                | : No data available      |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

|                             |                         |
|-----------------------------|-------------------------|
| Acute toxicity (oral)       | : Harmful if swallowed. |
| Acute toxicity (dermal)     | : Not classified        |
| Acute toxicity (inhalation) | : Not classified        |

| <b>Macerator Cleaner</b>  |                           |
|---|---------------------------|
| ATE CLP (oral)  | 1308.164 mg/kg bodyweight |
| <b>block copolymer of propylene and ethylene oxides (9003-11-6)</b>                       |                           |
| LD50 oral rat   | > 2000 mg/kg              |
| <b>phosphoric acid 81%, orthophosphoric acid 81% (7664-38-2)</b>                          |                           |
| LD50 oral rat   | 301 mg/kg                 |
| LD50 dermal rabbit  | 2750 mg/kg                |
| <b>quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)</b> |                           |
| LD50 oral rat   | 795 mg/kg                 |
| LD50 dermal rat   | 1560 mg/kg                |

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| <b>benzoic acid (65-85-0)</b> |   |
|-------------------------------|---|
| LD50 oral                     | 2250 mg/kg bodyweight Animal: mouse, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 1875 - 2700 |
| LD50 dermal rabbit            | > 2000 mg/kg bodyweight Animal: rabbit  |
| LC50 Inhalation - Rat         | > 12.2 mg/l air Animal: rat   |

|                                   |  |
|-----------------------------------|--|
| Skin corrosion/irritation         | : Causes severe skin burns.<br>pH: < 2                             |
| Additional information            | : Based on available data, the classification criteria are not met |
| Serious eye damage/irritation     | : Causes serious eye damage.<br>pH: < 2                            |
| Respiratory or skin sensitisation | : Not classified   |
| Additional information            | : Based on available data, the classification criteria are not met |
| Germ cell mutagenicity            | : Not classified   |
| Additional information            | : Based on available data, the classification criteria are not met |
| Carcinogenicity                   | : Not classified   |
| Additional information            | : Based on available data, the classification criteria are not met |
| Reproductive toxicity             | : Not classified   |
| Additional information            | : Based on available data, the classification criteria are not met |
| STOT-single exposure              | : Not classified   |
| Additional information            | : Based on available data, the classification criteria are not met |
| STOT-repeated exposure            | : Not classified   |
| Additional information            | : Based on available data, the classification criteria are not met |

| <b>benzoic acid (65-85-0)</b>                       |  |
|---|--|
| STOT-repeated exposure                              | Causes damage to organs (lungs) through prolonged or repeated exposure (inhalation).   |
| Aspiration hazard                                   | : Not classified   |
| Additional information                              | : Based on available data, the classification criteria are not met                     |
| Potential adverse human health effects and symptoms | : Harmful if swallowed, Corrosive. Causes severe burns, Risk of serious damage to eyes |

## SECTION 12: Ecological information

### 12.1. Toxicity

|   |  |
|---|--|
| Ecology - general   | : Toxic to aquatic life with long lasting effects.   |
| Ecology - water   | : Harmful 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) | : Harmful to aquatic life with long lasting effects. |

| <b>block copolymer of propylene and ethylene oxides (9003-11-6)</b> |            |
|---|------------|
| LC50 - Fish [1]   | > 100 mg/l |

| <b>phosphoric acid 81%, orthophosphoric acid 81% (7664-38-2)</b> |  |
|--|--|
| LC50 - Fish [1]  | 3 – 3.25 mg/l Bluegill, ( <i>Lepomis macrochirus</i> )   |
| EC50 - Crustacea [1]   | > 100 mg/l Test organisms (species): <i>Daphnia magna</i>  |
| EC50 72h - Algae [1]   | > 100 mg/l Test organisms (species): <i>Desmodesmus subspicatus</i> (previous name: <i>Scenedesmus subspicatus</i> ) |
| ErC50 algae  | > 100 mg/l   |
| TLM - Fish [1]   | 138 ppm Western mosquitofish ( <i>Gambusia affinis</i> )   |

| <b>quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)</b> |          |
|---|----------|
| LC50 - Fish [1]   | 1.7 mg/l |

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| <b>quatarnary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)</b> |   |
|---|---|
| EC50 - Crustacea [1]  | 0.03 mg/l   |
| EC50 96h - Algae [1]  | 0.06 mg/l   |
| <b>benzoic acid (65-85-0)</b>   |   |
| LC50 - Fish [1]   | 47.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)  |
| LC50 - Fish [2]   | 44.6 mg/l Test organisms (species): Lepomis macrochirus   |
| EC50 72h - Algae [1]  | > 33.1 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| NOEC (chronic)  | ≥ 25 mg/l Test organisms (species): Daphnia magna Duration: '21 d'  |
| NOEC chronic fish   | > 120 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '28 d'                                  |

### 12.2. Persistence and degradability

| <b>Macerator Cleaner</b>  |   |
|---|---|
| Persistence and degradability   | May cause long-term adverse effects in the environment. |
| <b>phosphoric acid 81%, orthophosphoric acid 81% (7664-38-2)</b>                          |   |
| Persistence and degradability   | Readily biodegradable.                                  |
| <b>quatarnary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)</b> |   |
| Persistence and degradability   | Not established.  |
| Chemical oxygen demand (COD)  | 1130 g O <sub>2</sub> /g substance                      |

### 12.3. Bioaccumulative potential

| <b>Macerator Cleaner</b>  |                                    |
|---|------------------------------------|
| Bioaccumulative potential   | Not established.                   |
| <b>block copolymer of propylene and ethylene oxides (9003-11-6)</b>                       |                                    |
| Bioaccumulative potential   | Bioaccumulation unlikely.          |
| <b>phosphoric acid 81%, orthophosphoric acid 81% (7664-38-2)</b>                          |                                    |
| Bioaccumulative potential   | No bioaccumulation data available. |
| <b>quatarnary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)</b> |                                    |
| Bioaccumulative potential   | Not established.                   |

### 12.4. Mobility in soil

| <b>Macerator Cleaner</b>   |   |
|--|---|
| Mobility in soil   | When released into the soil, this material may leach into groundwater. May be partially neutralized by natural water hardness and minerals in the soil. |
| Ecology - soil   | Mobile.   |
| <b>phosphoric acid 81%, orthophosphoric acid 81% (7664-38-2)</b> |   |
| Ecology - soil   | Product adsorbs onto the soil.  |



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### 12.5. Results of PBT and vPvB assessment

| Component  |   |
|--|---|
| phosphoric acid 81%, orthophosphoric acid 81% (7664-38-2)    | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| block copolymer of propylene and ethylene oxides (9003-11-6) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

### 12.6. Other adverse effects

Other adverse effects : May cause pH changes in aqueous ecological systems.  
Additional information : Avoid release to the environment.






## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.  
Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR   | IMDG  | IATA  | ADN   | RID   |
|---|---|---|---|---|
| <b>14.1. UN number</b>  |   |   |   |   |
| UN 1805   | UN 1805   | UN 1805   | UN 1805   | UN 1805   |
| <b>14.2. UN proper shipping name</b>  |   |   |   |   |
| PHOSPHORIC ACID, SOLUTION   | PHOSPHORIC ACID SOLUTION  | Phosphoric acid, solution   | PHOSPHORIC ACID, SOLUTION   | PHOSPHORIC ACID, SOLUTION   |
| <b>Transport document description</b>   |   |   |   |   |
| UN 1805 PHOSPHORIC ACID, SOLUTION, 8, III, (E)                                      | UN 1805 PHOSPHORIC ACID SOLUTION, 8, III  | UN 1805 Phosphoric acid, solution, 8, III   | UN 1805 PHOSPHORIC ACID, SOLUTION, 8, III   | UN 1805 PHOSPHORIC ACID, SOLUTION, 8, III   |
| <b>14.3. Transport hazard class(es)</b>   |   |   |   |   |
| 8   | 8   | 8   | 8   | 8   |
|  |  |  |  |  |
| <b>14.4. Packing group</b>  |   |   |   |   |
| III   | III   | III   | III   | III   |
| <b>14.5. Environmental hazards</b>  |   |   |   |   |
| Dangerous for the environment: No   | Dangerous for the environment: No<br>Marine pollutant: No                           | Dangerous for the environment: No   | Dangerous for the environment: No   | Dangerous for the environment: No   |
| No supplementary information available  |   |   |   |   |


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### 14.6. Special precautions for user

#### Overland transport

|   |   |
|---|---|
| Classification code (ADR)                                 | : C1  |
| Limited quantities (ADR)                                  | : 5I  |
| Excepted quantities (ADR)                                 | : E1  |
| Packing instructions (ADR)                                | : P001, IBC03, LP01, R001   |
| Mixed packing provisions (ADR)                            | : MP19  |
| Portable tank and bulk container instructions (ADR)       | : T4  |
| Portable tank and bulk container special provisions (ADR) | : TP1   |
| Tank code (ADR)   | : L4BN  |
| Vehicle for tank carriage                                 | : AT  |
| Transport category (ADR)                                  | : 3   |
| Special provisions for carriage - Packages (ADR)          | : V12   |
| Hazard identification number (Kemler No.)                 | : 80  |
| Orange plates   | :  |
| Tunnel restriction code (ADR)                             | : E   |
| EAC code  | : 2R  |

#### Transport by sea

|                                    |   |
|------------------------------------|---|
| Special provisions (IMDG)          | : 223   |
| Limited quantities (IMDG)          | : 5 L   |
| Excepted quantities (IMDG)         | : E1  |
| Packing instructions (IMDG)        | : P001, LP01  |
| IBC packing instructions (IMDG)    | : IBC03   |
| Tank instructions (IMDG)           | : T4  |
| Tank special provisions (IMDG)     | : TP1   |
| EmS-No. (Fire)                     | : F-A   |
| EmS-No. (Spillage)                 | : S-B   |
| Stowage category (IMDG)            | : A   |
| Segregation (IMDG)                 | : SGG1, SG36, SG49                                    |
| Properties and observations (IMDG) | : Miscible in water. Mildly corrosive to most metals. |

#### Air transport

|  |            |
|--|------------|
| PCA Excepted quantities (IATA)               | : E1       |
| PCA Limited quantities (IATA)                | : Y841     |
| PCA limited quantity max net quantity (IATA) | : 1L       |
| PCA packing instructions (IATA)              | : 852      |
| PCA max net quantity (IATA)                  | : 5L       |
| CAO packing instructions (IATA)              | : 856      |
| CAO max net quantity (IATA)                  | : 60L      |
| Special provisions (IATA)                    | : A3, A803 |
| ERG code (IATA)                              | : 8L       |

#### Inland waterway transport

|                                   |          |
|-----------------------------------|----------|
| Classification code (ADN)         | : C1     |
| Limited quantities (ADN)          | : 5 L    |
| Excepted quantities (ADN)         | : E1     |
| Carriage permitted (ADN)          | : T      |
| Equipment required (ADN)          | : PP, EP |
| Number of blue cones/lights (ADN) | : 0      |

#### Rail transport

|                                |                           |
|--------------------------------|---------------------------|
| Classification code (RID)      | : C1                      |
| Limited quantities (RID)       | : 5L                      |
| Excepted quantities (RID)      | : E1                      |
| Packing instructions (RID)     | : P001, IBC03, LP01, R001 |
| Mixed packing provisions (RID) | : MP19                    |

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|   |        |
|---|--------|
| Portable tank and bulk container instructions (RID)       | : T4   |
| Portable tank and bulk container special provisions (RID) | : TP1  |
| Tank codes for RID tanks (RID)                            | : L4BN |
| Special provisions for RID tanks (RID)                    | : TU42 |
| Transport category (RID)                                  | : 3    |
| Special provisions for carriage – Packages (RID)          | : W12  |
| Colis express (express parcels) (RID)                     | : CE8  |
| Hazard identification number (RID)                        | : 80   |

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

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

Contains no REACH substances with Annex XVII restrictions

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

Contains no REACH Annex XIV substances

##### REACH Candidate List (SVHC)

Contains no substance on the REACH candidate list

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

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

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

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

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

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

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

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

##### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on drug precursors)

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Abbreviations and acronyms:

|         |   |
|---------|---|
| CAS-No. | Chemical Abstract Service number  |
| 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             |

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| Abbreviations and acronyms: |   |
|-----------------------------|---|
| BOD                         | Biochemical oxygen demand (BOD)   |
| CLP                         | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008                       |
| COD                         | Chemical oxygen demand (COD)  |
| EC50                        | Median effective concentration  |
| EC-No.                      | European Community number   |
| IATA                        | International Air Transport Association   |
| IMDG                        | International Maritime Dangerous Goods  |
| IOELV                       | Indicative Occupational Exposure Limit Value  |
| LC50                        | Median lethal concentration   |
| LD50                        | Median lethal dose  |
| NOEC                        | No-Observed Effect Concentration  |
| PBT                         | Persistent Bioaccumulative Toxic  |
| REACH                       | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail                      |
| SDS                         | Safety Data Sheet   |
| ThOD                        | Theoretical oxygen demand (ThOD)  |
| TLM                         | Median Tolerance Limit  |
| vPvB                        | Very Persistent and Very Bioaccumulative  |

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

| Full text of H- and EUH-statements: |   |
|-------------------------------------|---|
| 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 |
| Eye Dam. 1                          | Serious eye damage/eye irritation, Category 1                     |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2                     |
| H290                                | May be corrosive to metals.                                       |
| H302                                | Harmful if swallowed.   |
| H314                                | Causes severe skin burns and eye damage.                          |
| H315                                | Causes skin irritation.   |
| H318                                | Causes serious eye damage.  |
| H319                                | Causes serious eye irritation.                                    |
| H372                                | Causes damage to organs through prolonged or repeated exposure.   |
| 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.                |

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

|               |  |
|---------------|--|
| Met. Corr. 1  | Corrosive to metals, Category 1                                |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B         |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2                          |
| STOT RE 1     | Specific target organ toxicity – Repeated exposure, Category 1 |

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.