

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2020/878)



## 0100CMW-Oxipool

Version 1 Date of compilation: 18/11/2020

Version 2 (replaces version 1)

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### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING.

#### 1.1 Product identifier.

Product Name: Oxipool  
Product Code: 0100CMW

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

Desinfectant for pool water.

#### Uses advised against:

Uses other than those recommended.

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

##### Company's identification:

Company: Лице, което предоставя продукта на пазара:  
Address: ФЛУИДРА БОЛКАНС" АД,  
City: гр. Пловдив, ул.  
Province: Голямоконарско шосе" № 190,  
Telephone: тел.: 032/950023,  
Fax: +34 93 713 41 11  
E-mail: fds@inquide.com  
Web: мейл.www.ctxprofessional.com

##### Responsible for market placement:

Company: Производител:  
Address: INQUIDE, S.A.  
City: Passeig Sanllehy, 25 08213 Polinya,  
Telephone: Tel.: 34 93 713 17 17

#### 1.4 Emergency telephone number: (Available 24 hours)

Anti poisoning centre:

ITALY (Rome): 06/305 43 43

ITALY (Milan): 02/66 10 10 29

SPAIN: +34 91 562 04 20

FRANCE (Paris): 01 40 05 48 48 FRANCE (Toulouse): 05 61 77 74 47 FRANCE (Marseille): 04 91 75 25 25

PORTUGAL: 808 250 143

BELGIQUE (Brussel): (+32) 070 245 245

Sweden: 112 - Begär Giftinformation (ask for Poisons Information)

Denmark (Giftlinjen): +45 8212 1212

Finland: 0800 147 111

Norway: +47 22 59 13 00

Cyprus: 1401

Greece: (0030) 2107793777

Netherlands (NVIC): +31 (0)88 755 8000

Romania: +4021 318 360 6 Biroul RSI Si Informare Toxicologica

Apelabil de luni pâna vineri, între orele 8.00-15.00

CAV accreditati: Roma +39 06 68 59 3726; Foggia +39 800 18 34 59; Napoli +39 081 54 53 333; Roma +39 06 49 97 80 00;

Roma +39 06 30 54 343; Firenze +39 055 79 47 819; Pavia +39 0382 24 444; Milano +39 02 66 10 10 29; Bergamo +39 800 88 33 00; Verona +39 800 01 18 58.

### SECTION 2: HAZARDS IDENTIFICATION.

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

In accordance with Regulation (EU) No 1272/2008:

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Acute Tox. 4 : Harmful if swallowed.  
Aquatic Chronic 3 : Harmful to aquatic life with long lasting effects.  
Skin Corr. 1B : Causes severe skin burns and eye damage.

### 2.2 Label elements.

#### Labelling in accordance with Regulation (EU) No 1272/2008:

Pictograms:



Signal Word:

**Danger**

Hazard statements:

|      |                                                                            |
|------|----------------------------------------------------------------------------|
| H302 | Harmful if swallowed.                                                      |
| H314 | Causes severe skin burns and eye damage.                                   |
| H317 | May cause an allergic skin reaction.                                       |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H412 | Harmful to aquatic life with long lasting effects.                         |

Precautionary statements:

|                |                                                                                                                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| P101           | If medical advice is needed, have product container or label at hand.                                                            |
| P102           | Keep out of reach of children.                                                                                                   |
| P273           | Avoid release to the environment.                                                                                                |
| P280           | Wear protective gloves/protective clothing/eye protection.                                                                       |
| P301+P310      | IF SWALLOWED: Immediately call a POISON CENTER/doctor/...                                                                        |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].                         |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P501           | Dispose of contents and/or container in accordance with hazardous waste regulations.                                             |

Contains:

dipotassium peroxodisulphate, potassium persulphate  
potassium peroximonosulphate

Active substances:

potassium peroximonosulphate, 25 - 100%;

### 2.3 Other hazards.

The mixture does not contain substances classified as PBT.  
The mixture does not contain substances classified as vPvB.  
The mixture does not contain any endocrine disrupting properties substances.

In normal use conditions and in its original form, the product itself does not involve any other risk for health and the environment.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

### 3.1 Substances.

Not Applicable.

### 3.2 Mixtures.

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Substances posing a danger to health or the environment in accordance with the Regulation (EC) No. 1272/2008, assigned a Community exposure limit in the workplace, and classified as PBT/vPvB or included in the Candidate List:

| Identifiers                                                                                                | Name                                                | Concentrate | (*)Classification - Regulation (EC) No 1272/2008                                                                                                |                                                            |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
|                                                                                                            |                                                     |             | Classification                                                                                                                                  | Specifics concentration limits and Acute toxicity estimate |
| CAS No: 70693-62-8<br>EC No: 274-778-7<br>Registration No: 01-2119485567-22-XXXX                           | potassium peroximonosulphate                        | 25 - 100 %  | Acute Tox. 4, H302 - Aquatic Chronic 3, H412 - Eye Dam. 1, H318 - Skin Corr. 1B, H314                                                           | -                                                          |
| Index No: 005-007-00-2<br>CAS No: 10043-35-3<br>EC No: 233-139-2<br>Registration No: 01-2119486683-25-XXXX | [5] boric acid                                      | 0.1 - 5.5 % | Repr. 1B, H360FD                                                                                                                                | -                                                          |
| Index No: 016-061-00-1<br>CAS No: 7727-21-1<br>EC No: 231-781-8<br>Registration No: 01-2119495676-19-XXXX  | dipotassium peroxodisulphate, potassium persulphate | 1 - 10 %    | Acute Tox. 4 *, H302 - Eye Irrit. 2, H319 - Ox. Sol. 3, H272 - Resp. Sens. 1, H334 - STOT SE 3, H335 - Skin Irrit. 2, H315 - Skin Sens. 1, H317 | -                                                          |
| CAS No: 7760-50-1<br>EC No: 231-851-8                                                                      | Tetra (carbonate (2 -)) dihidroxipentamagnesio      | 1 - 10 %    | Eye Irrit. 2, H319                                                                                                                              | -                                                          |

(\*) The complete text of the H phrases is given in section 16 of this Safety Data Sheet.

\* See Regulation (EC) No. 1272/2008, Annex VI, section 1.2.

[5] Substance included in the list established under Article 59, paragraph 1, REACH (Candidate substance).

### SECTION 4: FIRST AID MEASURES.

#### 4.1 Description of first aid measures.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

##### Inhalation.

Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration.

##### Eye contact.

Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance. Don't let the person to rub the affected eye.

##### Skin contact.

Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. NEVER use solvents or thinners. The use of personal protective equipment is recommended for people providing first aid (see section 8).

##### Ingestion.

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If accidentally ingested, seek immediate medical attention. Keep calm. NEVER induce vomiting.

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

Corrosive Product, contact with eyes or skin can cause burns; ingestion or inhalation can cause internal damage, if this occurs immediate medical assistance is required.

Harmful Product, prolonged exposure due to inhalation may cause anaesthetic effects and the need for immediate medical assistance.

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

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious. Do not induce vomiting. If the person vomits, clear the respiratory tract.

### SECTION 5: FIREFIGHTING MEASURES.

The product is NOT classified as flammable, in case of fire the following measures should be taken:

#### 5.1 Extinguishing media.

##### Suitable extinguishing media:

Extinguisher powder or CO<sub>2</sub>. In case of more serious fires, also alcohol-resistant foam and water spray.

##### Unsuitable extinguishing media:

Do not use a direct stream of water to extinguish. In the presence of electrical voltage, you cannot use water or foam as extinguishing media.

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

##### Special risks.

Exposure to combustion or decomposition products can be harmful to your health.

#### 5.3 Advice for firefighters.

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers, or waterways. Product residues and extinguishing media may contaminate the aquatic environment.

##### Fire protection equipment.

According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and boots.

### SECTION 6: ACCIDENTAL RELEASE MEASURES.

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

For exposure control and individual protection measures, see section 8.

#### 6.2 Environmental precautions.

Product dangerous for the environment, in case of large spills or if the product contaminates lakes, rivers, or sewers, inform the responsible authorities according to local legislation. Prevent the contamination of drains, surface or subterranean waters, and the ground.

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

Contain and collect spillage with inert absorbent material (earth, sand, vermiculite, Kieselguhr...) and clean the area immediately with a suitable decontaminant.

Deposit waste in closed and suitable containers for disposal, in compliance with local and national regulations (see section 13).

#### 6.4 Reference to other sections.

For exposure control and individual protection measures, see section 8.

For later elimination of waste, follow the recommendations under section 13.

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### SECTION 7: HANDLING AND STORAGE.

#### 7.1 Precautions for safe handling.

For personal protection, see section 8.

In the application area, smoking, eating, and drinking must be prohibited.

Follow legislation on occupational health and safety.

Never use pressure to empty the containers. They are not pressure-resistant containers. Keep the product in containers made of a material identical to the original.

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

Store according to local legislation. Observe indications on the label. Store the containers between 5 and 25 °C, in a dry and well-ventilated place, far from sources of heat and direct solar light. Keep far away from ignition points. Keep away from oxidising agents and from highly acidic or alkaline materials. Do not smoke. Prevent the entry of non-authorised persons. Once the containers are open, they must be carefully closed and placed vertically to prevent spills.

The product is not affected by Directive 2012/18/EU (SEVESO III).

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

None in particular.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

#### 8.1 Control parameters.

Work exposure limit for:

| Name                                                | CAS No.   | Country  | Limit value | ppm | mg/m <sup>3</sup> |
|-----------------------------------------------------|-----------|----------|-------------|-----|-------------------|
| dipotassium peroxodisulphate, potassium persulphate | 7727-21-1 | Éire [1] | Eight hours |     | 0,1               |
|                                                     |           |          | Short term  |     |                   |

[1] According Code of Practice for the Safety, Health and Welfare at Work (Chemicals Agents) Regulations adopted by Health and Safety Authority (HSA).

The product does NOT contain substances with Biological Limit Values.

Concentration levels DNEL/DMEL:

| Name                                                                                         | DNEL/DMEL         | Type                                  | Value                        |
|----------------------------------------------------------------------------------------------|-------------------|---------------------------------------|------------------------------|
| potassium peroximonosulphate<br>CAS No: 70693-62-8<br>EC No: 274-778-7                       | DNEL<br>(Workers) | Inhalation, Chronic, Local effects    | 0,28<br>(mg/m <sup>3</sup> ) |
|                                                                                              | DNEL<br>(Workers) | Inhalation, Chronic, Systemic effects | 0,28<br>(mg/m <sup>3</sup> ) |
| boric acid<br>CAS No: 10043-35-3<br>EC No: 233-139-2                                         | DNEL<br>(Workers) | Inhalation, Chronic, Systemic effects | 8,3<br>(mg/m <sup>3</sup> )  |
| dipotassium peroxodisulphate, potassium persulphate<br>CAS No: 7727-21-1<br>EC No: 231-781-8 | DNEL<br>(Workers) | Inhalation, Chronic, Local effects    | 2,06<br>(mg/m <sup>3</sup> ) |
|                                                                                              | DNEL<br>(Workers) | Inhalation, Chronic, Systemic effects | 2,06<br>(mg/m <sup>3</sup> ) |

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.

CAS: 70693-62-8

TLV TWA - 10 mg/m<sup>3</sup>

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CAS: 7727-21-1

TLV TWA - 0,1 mg/m<sup>3</sup>

### 8.2 Exposure controls.

#### Measures of a technical nature:

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

|                              |                                                                                                                                                                                                                                                                                                        |                                     |       |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------|
| <b>Concentration:</b>        |                                                                                                                                                                                                                                                                                                        | <b>100 %</b>                        |       |
| <b>Uses:</b>                 |                                                                                                                                                                                                                                                                                                        | <b>Desinfectant for pool water.</b> |       |
| <b>Breathing protection:</b> |                                                                                                                                                                                                                                                                                                        |                                     |       |
| PPE:                         | Particle filter mask                                                                                                                                                                                                                                                                                   |                                     |       |
| Characteristics:             | «CE» marking, category III. Made of filtering material, it covers nose, mouth and chin.                                                                                                                                                                                                                |                                     |       |
| CEN standards:               | EN 149                                                                                                                                                                                                                                                                                                 |                                     |       |
| Maintenance:                 | Check for any tears, defects, etc. before use. Since it is disposable individual protection equipment, it should be replaced after use.                                                                                                                                                                |                                     |       |
| Observations:                | Does not protect worker unless properly adjusted. Follow the manufacturer's instructions regarding suitable use of the equipment.                                                                                                                                                                      |                                     |       |
| Filter Type needed:          | P2                                                                                                                                                                                                                                                                                                     |                                     |       |
| <b>Hand protection:</b>      |                                                                                                                                                                                                                                                                                                        |                                     |       |
| PPE:                         | Non-disposable protective gloves against chemicals.                                                                                                                                                                                                                                                    |                                     |       |
| Characteristics:             | «CE» marking, category III. Check the list of chemicals for which the glove has been tested.                                                                                                                                                                                                           |                                     |       |
| CEN standards:               | EN 374-1, En 374-2, EN 374-3, EN 420                                                                                                                                                                                                                                                                   |                                     |       |
| Maintenance:                 | A schedule for the periodical replacement of gloves should be established in order to guarantee their replacement before pollutants permeate them. The use of contaminated gloves could be more dangerous than not using gloves, since the pollutant can gradually accumulate in the glove's material. |                                     |       |
| Observations:                | They are to be replaced whenever tears, cracks or deformations are observed or when exterior dirt could reduce their strength.                                                                                                                                                                         |                                     |       |
| Material:                    | Butyl                                                                                                                                                                                                                                                                                                  | Breakthrough time (min.):           | > 480 |
|                              |                                                                                                                                                                                                                                                                                                        | Material thickness (mm):            | 0,5   |
| <b>Eye protection:</b>       |                                                                                                                                                                                                                                                                                                        |                                     |       |
| PPE:                         | Protective goggles against particle impacts.                                                                                                                                                                                                                                                           |                                     |       |
| Characteristics:             | «CE» marking, category II. Eye protector against dust and smoke.                                                                                                                                                                                                                                       |                                     |       |
| CEN standards:               | EN 165, EN 166, EN 167, EN 168                                                                                                                                                                                                                                                                         |                                     |       |
| Maintenance:                 | Visibility through lenses should be ideal. Therefore, these parts should be cleaned daily. Protectors should be disinfected periodically following the manufacturer's instructions.                                                                                                                    |                                     |       |
| Observations:                | Some signs of wear and tear include: yellow colouring of the lenses, superficial scratching of the lenses, scraping etc.                                                                                                                                                                               |                                     |       |
| <b>Skin protection:</b>      |                                                                                                                                                                                                                                                                                                        |                                     |       |
| PPE:                         | Chemical protective clothing                                                                                                                                                                                                                                                                           |                                     |       |
| Characteristics:             | «CE» marking, category III. Clothing should fit properly. The level of protection must be set according to a test parameter called BT (Breakthrough Time), which indicates how long it takes for the chemical to pass through the material.                                                            |                                     |       |
| CEN standards:               | EN 464,EN 340, EN 943-1, EN 943-2, EN ISO 6529, EN ISO 6530, EN 13034                                                                                                                                                                                                                                  |                                     |       |
| Maintenance:                 | In order to guarantee uniform protection, follow the washing and maintenance instructions provided by the manufacturer.                                                                                                                                                                                |                                     |       |
| Observations:                | The protective clothing's design should facilitate correct positioning, staying in place without moving for the period of use expected, bearing in mind environmental factors as well as any movement or position the user might adopt while carrying out the activity.                                |                                     |       |
| PPE:                         | Anti-static safety footwear against chemicals.                                                                                                                                                                                                                                                         |                                     |       |
| Characteristics:             | «CE» marking, category III. Check the list of chemicals against which the footwear is resistant.                                                                                                                                                                                                       |                                     |       |
| CEN standards:               | EN ISO 13287, EN 13832-1, EN 13832-2, EN 13832-3, EN ISO 20344, EN ISO 20345                                                                                                                                                                                                                           |                                     |       |

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|               |                                                                                                                                                                                                                |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Maintenance:  | For correct maintenance of this kind of safety footwear, it is necessary to observe the instructions specified by the manufacturer. The footwear should be replaced as soon as any sign of damage is observed. |
| Observations: | The footwear should be cleaned regularly and dried when damp, although it should not be placed too close to a source of heat in order to avoid any sharp changes in temperature.                               |

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

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

Physical state: Solid

Colour: White

Odour: Odourless

Odour threshold: Not applicable/Not available due to the nature/properties of the product

Melting point: Not applicable/Not available due to the nature/properties of the product

Freezing point: Not applicable/Not available due to the nature/properties of the product

Boiling point or initial boiling point and boiling range: Not applicable/Not available due to the nature/properties of the product

Flammability: Not applicable/Not available due to the nature/properties of the product

Lower explosion limit: Not applicable/Not available due to the nature/properties of the product

Upper explosion limit: Not applicable/Not available due to the nature/properties of the product

Flash point: Not applicable/Not available due to the nature/properties of the product

Auto-ignition temperature: Not applicable/Not available due to the nature/properties of the product

Decomposition temperature: Not applicable/Not available due to the nature/properties of the product

pH: 2 - 3 (1%)

Kinematic viscosity: Not applicable/Not available due to the nature/properties of the product

Solubility: Not applicable/Not available due to the nature/properties of the product

Hydrosolubility: Not applicable/Not available due to the nature/properties of the product

Liposolubility: Not applicable/Not available due to the nature/properties of the product

Partition coefficient n-octanol/water (log value): Not applicable/Not available due to the nature/properties of the product

Vapour pressure: Not applicable/Not available due to the nature/properties of the product

Absolute density: Not applicable/Not available due to the nature/properties of the product

Relative density: 1,113 (Estimation based on the indication of the Regulation (CE) N°1272/2008.)

Relative vapour density: Not applicable/Not available due to the nature/properties of the product

Particle characteristics: Not applicable/Not available due to the nature/properties of the product

#### 9.2 Other information

Viscosity: Not applicable/Not available due to the nature/properties of the product

Explosive properties: Not applicable/Not available due to the nature/properties of the product

Oxidizing properties: Not applicable/Not available due to the nature/properties of the product

Dropping point: Not applicable/Not available due to the nature/properties of the product

Blink: Not applicable/Not available due to the nature/properties of the product

### SECTION 10: STABILITY AND REACTIVITY.

#### 10.1 Reactivity.

The product does not present hazards by their reactivity.

#### 10.2 Chemical stability.

Unstable in contact with:

- Bases.

#### 10.3 Possibility of hazardous reactions.

Neutralization can occur on contact with bases.

#### 10.4 Conditions to avoid.

- Avoid contact with bases.

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### 10.5 Incompatible materials.

Avoid the following materials:

- Bases.

### 10.6 Hazardous decomposition products.

Depending on conditions of use, can be generated the following products:

- Corrosive vapors or gases.

## SECTION 11: TOXICOLOGICAL INFORMATION.

### 11.1 Information on hazard classes as defined in Regulation (EC) N° 1272/2008.

Splatters in the eyes can cause irritation and reversible damage.

#### Toxicological information about the substances present in the composition.

| Name                                                                                             | Acute toxicity |      |        |                                                                                                                |
|--------------------------------------------------------------------------------------------------|----------------|------|--------|----------------------------------------------------------------------------------------------------------------|
|                                                                                                  | Type           | Test | Kind   | Value                                                                                                          |
| potassium peroximonosulphate<br><br>CAS No: 70693-62-8    EC No: 274-778-7                       | Oral           | LD50 | Rat    | 200-2000 mg/kg                                                                                                 |
|                                                                                                  | Dermal         | LC50 | Rat    | > 2000 mg/kg                                                                                                   |
|                                                                                                  | Inhalation     | LC50 | Rat    | > 5 mg/l (4 h)                                                                                                 |
| boric acid<br><br>CAS No: 10043-35-3    EC No: 233-139-2                                         | Oral           | LD50 | Rat    | 3500-4100 mg/kg                                                                                                |
|                                                                                                  |                | LD50 | Rat    | 2660 mg/kg bw [1]                                                                                              |
|                                                                                                  | Dermal         | LD50 | Rabbit | >2000 mg/kg                                                                                                    |
| dipotassium peroxodisulphate, potassium persulphate<br><br>CAS No: 7727-21-1    EC No: 231-781-8 | Inhalation     | LC50 | Rat    | > 2 mg/l                                                                                                       |
|                                                                                                  | Oral           | LD50 | Rat    | 1130 mg/kg bw [1]                                                                                              |
|                                                                                                  |                |      |        | [1] FMC Corporation, Acute and 28-day subacute toxicity of potassium persulfate, Study no. ICG/T-79-024, 1979. |
|                                                                                                  | Dermal         | LD50 | Rabbit | 10000 mg/kg bw [1]                                                                                             |
|                                                                                                  |                |      |        | [1] FMC Corporation, Acute and 28-day subacute toxicity of potassium persulfate, Study no. ICG/T-79-024, 1979. |
|                                                                                                  | Inhalation     |      |        |                                                                                                                |

a) acute toxicity;

Product classified:

Acute toxicity (Oral), Category 4: Harmful if swallowed.

b) skin corrosion/irritation;

Product classified:

Skin Corrosive, Category 1B: Causes severe skin burns and eye damage.

c) serious eye damage/irritation;

Based on available data, the classification criteria are not met.

d) respiratory or skin sensitisation;

Based on available data, the classification criteria are not met.

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e) germ cell mutagenicity;  
Not conclusive data for classification.

f) carcinogenicity;  
Not conclusive data for classification.

g) reproductive toxicity;  
Based on available data, the classification criteria are not met.

h) STOT-single exposure;  
Based on available data, the classification criteria are not met.

i) STOT-repeated exposure;  
Not conclusive data for classification.

j) aspiration hazard;  
Not conclusive data for classification.

### 11.2 Information on other hazards.

#### Endocrine disrupting properties

This product does not contain components with endocrine-disrupting properties with effects on human health.

#### Other information

There is no information available on other adverse health effects.

## SECTION 12: ECOLOGICAL INFORMATION.

### 12.1 Toxicity.

| Name                                                                       | Ecotoxicity           |      |            |                     |
|----------------------------------------------------------------------------|-----------------------|------|------------|---------------------|
|                                                                            | Type                  | Test | Kind       | Value               |
| potassium peroximonosulphate<br><br>CAS No: 70693-62-8    EC No: 274-778-7 | Fish                  | LC50 | Fish       | 1.09 mg/l (96 h)    |
|                                                                            |                       | LC50 | Fish       | 53 mg/l (96 h)      |
|                                                                            | Aquatic invertebrates | EC50 | Daphnia    | 3.5 mg/l (48 h)     |
| boric acid                                                                 | Aquatic plants        | EC50 | Algae      | 1 mg/l (72 h)       |
|                                                                            | Fish                  | LC50 | Fish       | 74 mg/l (96 h)      |
|                                                                            |                       | LC50 | Fish       | 487 mg/l (96 h) [1] |
|                                                                            | Aquatic invertebrates | LC50 | Daphnia    | 133 mg/l (48 h)     |
|                                                                            |                       | LC50 | Crustacean | 180 mg/l (48 h) [1] |

[1] Hamilton, S.J., and K.J. Buhl 1990. Acute Toxicity of Boron, Molybdenum, and Selenium to Fry of Chinook Salmon and Coho Salmon. Arch.Environ.Contam.Toxicol. 19(3):366-373. Hamilton, S.J. 1995. Hazard Assessment of Inorganics to Three Endangered Fish in the Green River, Utah. Ecotoxicol.Environ.Saf. 30(2):134-142

[1] Gersich, F.M. 1984. Evaluation of a Static Renewal Chronic Toxicity Test Method for Daphnia magna Straus Using Boric Acid. Environ.Toxicol.Chem. 3(1):89-94. Lewis, M.A., and L.C. Valentine 1981. Acute and Chronic Toxicities of Boric Acid to Daphnia magna Straus. Bull.Environ.Contam.Toxicol. 27(3):309-315

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|                                                     |                       |                                                                  |
|-----------------------------------------------------|-----------------------|------------------------------------------------------------------|
| CAS No: 10043-35-3 EC No: 233-139-2                 | Aquatic plants        |                                                                  |
| dipotassium peroxodisulphate, potassium persulphate | Fish                  | LC50 Oncorhynchus mykiss 76.3 mg/l [1]<br>[1] US EPA TG OPP 72-1 |
|                                                     | Aquatic invertebrates | EC50 Daphnia magna 120 mg/l [1]<br>[1] US EPA TG OPP 72-2        |
| CAS No: 7727-21-1 EC No: 231-781-8                  | Aquatic plants        |                                                                  |

### 12.2 Persistence and degradability.

No information is available regarding the biodegradability of the substances present.

No information is available on the degradability of the substances present.

No information is available about persistence and degradability of the product.

### 12.3 Bioaccumulative potential.

No information is available regarding the bioaccumulation of the substances present.

### 12.4 Mobility in soil.

No information is available about the mobility in soil.

The product must not be allowed to go into sewers or waterways.

Prevent penetration into the ground.

### 12.5 Results of PBT and vPvB assessment.

No information is available about the results of PBT and vPvB assessment of the product.

### 12.6 Endocrine disrupting properties.

This product doesn't contain components with environmental endocrine disrupting properties.

### 12.7 Other adverse effects.

No information is available about other adverse effects for the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS.

### 13.1 Waste treatment methods.

Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.

Follow the provisions of Directive 2008/98/EC regarding waste management.

## SECTION 14: TRANSPORT INFORMATION.

Transport following ADR rules for road transport, RID rules for railway, ADN for inner waterways, IMDG for sea, and ICAO/IATA for air transport.

**Land:** Transport by road: ADR, Transport by rail: RID.

Transport documentation: Consignment note and written instructions

**Sea:** Transport by ship: IMDG.

Transport documentation: Bill of lading

**Air:** Transport by plane: ICAO/IATA.

Transport document: Airway bill.

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### 14.1 UN number or ID number.

UN No: UN3260

### 14.2 UN proper shipping name.

Description:

ADR/RID: UN 3260, CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (CONTAINS POTASSIUM PEROXIMONOSULPHATE), 8, PG II, (E)

IMDG: UN 3260, CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (CONTAINS POTASSIUM PEROXIMONOSULPHATE), 8, PG II

ICAO/IATA: UN 3260, CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (CONTAINS POTASSIUM PEROXIMONOSULPHATE), 8, PG II

### 14.3 Transport hazard class(es).

Class(es): 8

### 14.4 Packing group.

Packing group: II

### 14.5 Environmental hazards.

Marine pollutant: No

Transport by ship, FEm – Emergency sheets (F – Fire, S - Spills): F-A,S-B

### 14.6 Special precautions for user.

Labels: 8



Hazard number: 80

ADR LQ: 1 kg

IMDG LQ: 1 kg

ICAO LQ: 5 kg

Provisions concerning carriage in bulk ADR: Not authorized carriage in bulk in accordance with ADR.

Proceed in accordance with point 6.

IMDG Code segregation group: 1 Acids

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

The product is not transported in bulk.

## SECTION 15: REGULATORY INFORMATION.

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

The product is not affected by the Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

#### Volatile organic compound (VOC)

VOC content (p/p): 0 %

VOC content: 0 g/l

Product classification according to Annex I of Directive 2012/18/EU (SEVESO III): N/A

Information related to Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products:

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| Product Type                                                                         | Group         |
|--------------------------------------------------------------------------------------|---------------|
| Disinfectants and algicides not intended for direct application to humans or animals | Disinfectants |

| Active substances                                                      | Concentration % |
|------------------------------------------------------------------------|-----------------|
| potassium peroximonosulphate<br>CAS No: 70693-62-8<br>EC No: 274-778-7 | 25 - 100        |

The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.

Kind of pollutant to water (Germany): WGK 1: Slightly hazardous to water. (Autoclassified according to the AwSV Regulations)

### 15.2 Chemical safety assessment.

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## SECTION 16: OTHER INFORMATION.

Complete text of the H phrases that appear in section 3:

|        |                                                                            |
|--------|----------------------------------------------------------------------------|
| H272   | May intensify fire; oxidiser.                                              |
| H302   | Harmful if swallowed.                                                      |
| H314   | Causes severe skin burns and eye damage.                                   |
| H315   | Causes skin irritation.                                                    |
| H317   | May cause an allergic skin reaction.                                       |
| H318   | Causes serious eye damage.                                                 |
| H319   | Causes serious eye irritation.                                             |
| H334   | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335   | May cause respiratory irritation.                                          |
| H360FD | May damage fertility. May damage the unborn child.                         |
| H412   | Harmful to aquatic life with long lasting effects.                         |

Classification codes:

Acute Tox. 4 : Acute toxicity (Oral), Category 4  
Aquatic Chronic 3 : Chronic effect to the aquatic environment, Category 3  
Eye Dam. 1 : Serious eye damage, Category 1  
Eye Irrit. 2 : Eye irritation, Category 2  
Ox. Sol. 3 : Oxidising solid, Category 3  
Repr. 1B : Reproductive toxicant, Category 1B  
Resp. Sens. 1 : Respiratory sensitiser, Category 1  
STOT SE 3 : Specific target organ toxicity following a single exposure, Category 3  
Skin Corr. 1B : Skin Corrosive, Category 1B  
Skin Irrit. 2 : Skin irritant, Category 2  
Skin Sens. 1 : Skin sensitiser, Category 1

Changes regarding to the previous version:

- Modification of specific hazards (SECTION 2.3).
- Changes in the composition of the product (SECTION 3.2).
- Modification in the firefighting measures (SECTION 5.2).
- Modifications in the accidental release measures (SECTION 6.1).
- Modifications in the accidental release measures (SECTION 6.2).
- Modification of exposure data (SECTION 8.1).
- Modification in the values of the physical and chemical properties (SECTION 9).

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- Change in the hazard classification (SECTION 11.1).
- Modification of the classification ADR/IMDG/ICAO/IATA/RID (SECTION 14).
- National legislative changes (SECTION 15.1).
- Addition of abbreviations and acronyms (SECTION 16).

### **Classification and procedure used to derive the classification for mixtures according to Regulation (EC)**

#### **1272/2008 [CLP]:**

|                       |                       |
|-----------------------|-----------------------|
| Physical hazards      | On basis of test data |
| Health hazards        | Calculation method    |
| Environmental hazards | Calculation method    |

It is advisable to carry out basic training with regard to health and safety at work in order to handle this product correctly.

#### Abbreviations and acronyms used:

ADR/RID: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AwSV: Facility Regulations for handling substances that are hazardous for the water.

CEN: European Committee for Standardization.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.

EC50: Half maximal effective concentration.

PPE: Personal protection equipment.

IATA: International Air Transport Association.

ICAO: International Civil Aviation Organization.

IMDG: International Maritime Code for Dangerous Goods.

LC50: Lethal concentration, 50%.

LD50: Lethal dose, 50%.

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.

WGK: Water hazard classes.

#### Key literature references and sources for data:

<http://eur-lex.europa.eu/homepage.html>

<http://echa.europa.eu/>

Regulation (EU) 2020/878.

Regulation (EC) No 1907/2006.

Regulation (EU) No 1272/2008.

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemical substances and mixtures (REACH).

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.