

# Summary of product characteristics for a biocidal product

**Product name:** Product 2-2 - Hygiène et Nature

**Product type(s):** PT02 - Disinfectants and algaecides not intended for direct application to humans or animals (Disinfectants)

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PT04 - Food and feed area (Disinfectants)

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**Authorisation number:** FR-2023-0078

**R4BP 3 asset reference number:** FR-0021554-0005

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## Administrative information

### 1.1. Trade names of the product

PRODUCT 2-2 - Hygiène et Nature
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### 1.2. Authorisation holder

**Name and address of the authorisation holder**

Name	HYGIENE ET NATURE
Address	12 Boulevard Eiffel 21600 Longvic France
Authorisation number	FR-2023-0078 1-2

**R4BP 3 asset reference number**

FR-0021554-0005
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**Date of the authorisation**

19/12/2023
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**Expiry date of the authorisation**

18/12/2033
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### 1.3. Manufacturer(s) of the biocidal products

**Name of the manufacturer**

HYGIENE ET NATURE
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**Address of the manufacturer**

12 BOULEVARD EIFFEL 21603 LONGVIC Cedex France
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**Location of manufacturing sites**

12 BOULEVARD EIFFEL 21603 LONGVIC Cedex France
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### 1.4. Manufacturer(s) of the active substance(s)

<b>Active substance</b>	1322 - L-(+)-lactic acid
<b>Name of the manufacturer</b>	Corbion Purac Bioquimica sa
<b>Address of the manufacturer</b>	Gran Vial 19-25 08160 MONTMELÓ Spain
<b>Location of manufacturing sites</b>	Gran Vial 19-25 08160 MONTMELÓ Spain
	Arkelsedijk 46 NL-4200 GORINCHEM Netherlands

<b>Active substance</b>	1322 - L-(+)-lactic acid
<b>Name of the manufacturer</b>	Jungbunzlauer S.A
<b>Address of the manufacturer</b>	ZI Portuaire - BP 32 F-67390 Marcklosheim France
<b>Location of manufacturing sites</b>	Jungbunzlauer S.A - ZI Portuaire - BP 32 F-67390 Marcklosheim France

## 2. Product composition and formulation

### 2.1. Qualitative and quantitative information on the composition of the biocidal product

Common name	IUPAC name	Function	CAS number	EC number	Content (%)
L-(+)-lactic acid		Active Substance	79-33-4	201-196-2	25,13
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6)	Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one	Non-active substance	55965-84-9	611-341-5	0,011

### 2.2. Type of formulation

SL - Soluble concentrate
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## 3. Hazard and precautionary statements

**Hazard statements**

May be corrosive to metals.  
Causes severe skin burns and eye damage.  
May cause an allergic skin reaction.  
Corrosive to the respiratory tract.

**Precautionary statements**

Keep only in original packaging.  
Do not breathe spray.  
Wash hands thoroughly after handling.  
Wear protective gloves/ protective clothing/ eye protection.  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with .  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
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 or doctor/physician.  
Specific treatment (see on this label).  
Wash contaminated clothing before reuse.  
Absorb spillage to prevent material damage.  
Store in a corrosive resistant/... container with a resistant inner liner.  
If skin irritation or rash occurs: Get medical .  
Avoid release to the environment.  
Dispose of to .

**4. Authorised use(s)**

**4.1 Use description**

**Use 1 - Disinfection of hard surfaces and equipment by manual liquid spraying – Professionals - PT2 – Soluble concentrate (Use 1)**

**Product type**

PT02 - Disinfectants and algaecides not intended for direct application to humans or animals (Disinfectants)

**Where relevant, an exact description of the authorised use**

-

Scientific name:

**Target organism(s) (including development stage)**

Common name: Bacteria  
Development stage:

Scientific name:  
Common name: Yeasts  
Development stage:

**Field(s) of use**

Indoor

Indoors disinfection in private and public areas: institutions, industries (including cosmetic and pharmaceutical industries), and health care facilities (excluding the hospitals)

**Application method(s)**

Method: Spraying  
Detailed description:  
Manual surface spraying

**Application rate(s) and frequencies**

Application Rate: -  
Dilution (%): 8% v/v  
Number and timing of application:  
At a temperature of 40°C:  
- Bacteria and yeasts: 8% v/v, 15 minutes.

**Category(ies) of users**

Professional

**Pack sizes and packaging material**

100mL to 2L HDPE/PET Bottle  
  
1L HDPE Bottle with handle  
  
1L LDPE Dosing bottle  
  
1L HDPE Dosing bottle  
  
5L HDPE Jerrican with distributor pump  
  
5 to 30L HDPE Jerrican  
  
60-220L HDPE Drum  
  
1000L HDPE Bulk container (IBC)

**4.1.1 Use-specific instructions for use**

- For healthcare settings: clean carefully the surfaces before application of the product.

#### 4.1.2 Use-specific risk mitigation measures

For professional user: wear gloves, protective coverall and chemical goggles (material to be specified by the authorisation holder within the product information) during mixing and loading, application and rinsing.

For professional bystander:

- Do not be present in the treatment area during disinfection process by compression/knapsack sprayer. If it is necessary to be present, wear same PPE as the professional user.
- Do not touch the surface until it is completely dried.

For General public:

- Do not be present in the treatment area during disinfection process by compression sprayer.
- Do not touch the surface until it is rinsed and completely dried.
- Children should not be present during disinfection and until the surface is rinsed and dried.

#### 4.1.3 Where specific to the use, the particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

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#### 4.1.4 Where specific to the use, the instructions for safe disposal of the product and its packaging

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#### 4.1.5 Where specific to the use, the conditions of storage and shelf-life of the product under normal conditions of storage

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#### 4.2 Use description

##### Use 2 - Disinfection of hard surfaces by manual spraying using mural cleaning station (liquid/foam spraying) – Professionals - PT2 – Soluble concentrate (Use 2)

###### Product type

PT02 - Disinfectants and algaecides not intended for direct application to humans or animals (Disinfectants)

###### Where relevant, an exact description of the authorised use

-

###### Target organism(s) (including development stage)

Scientific name:  
Common name: Bacteria  
Development stage:

Scientific name:  
Common name: Yeasts  
Development stage:

<b>Field(s) of use</b>	Indoor  Indoors disinfection in private and public areas: institutions, industries (including cosmetic and pharmaceutical industries), and health care facilities (excluding the hospitals)
<b>Application method(s)</b>	Method: Spraying Detailed description: Manual spraying with a mural cleaning station (liquid/foam spraying) with automated dilution.
<b>Application rate(s) and frequencies</b>	Application Rate: - Dilution (%): 8% v/v Number and timing of application: At a temperature of 40°C:  - Bacteria and yeasts: 8% v/v, 15 minutes.
<b>Category(ies) of users</b>	Professional
<b>Pack sizes and packaging material</b>	5 to 30L HDPE Jerrican  60-220L HDPE Drum  1000L HDPE Bulk container (IBC)

#### 4.2.1 Use-specific instructions for use

- For healthcare settings: clean carefully the surfaces before application of the product.

#### 4.2.2 Use-specific risk mitigation measures

For professional user: wear gloves, protective coverall and chemical goggles (material to be specified by the authorisation holder within the product information) during mixing and loading, application and rinsing.

For professional bystander:

- Do not be present in the treatment area during disinfection process by compression/knapsack sprayer. If it is necessary to be present, wear same PPE as the professional user.
- Do not touch the surface until it is completely dried.

For General public:

- Do not be present in the treatment area during disinfection process by compression sprayer.



- Do not touch the surface until it is rinsed and completely dried.
- Children should not be present during disinfection and until the surface is rinsed and dried.

#### 4.2.3 Where specific to the use, the particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

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#### 4.2.4 Where specific to the use, the instructions for safe disposal of the product and its packaging

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#### 4.2.5 Where specific to the use, the conditions of storage and shelf-life of the product under normal conditions of storage

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### 4.3 Use description

#### Use 3 - Disinfection of hard surfaces of equipment by manual dipping/soaking– Professionals - PT2 – Soluble concentrate (Use3)

##### Product type

PT02 - Disinfectants and algaecides not intended for direct application to humans or animals (Disinfectants)

##### Where relevant, an exact description of the authorised use

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##### Target organism(s) (including development stage)

Scientific name:  
Common name: Bacteria  
Development stage:

Scientific name:  
Common name: Yeasts  
Development stage:

##### Field(s) of use

Indoor

Indoors disinfection in private and public areas: institutions, industries (including cosmetic and pharmaceutical industries), and health care facilities (excluding the hospitals)

##### Application method(s)

Method: Dipping/Soaking  
Detailed description:  
Manual dipping/soaking.

##### Application rate(s) and frequencies

Application Rate: -  
Dilution (%): 8% v/v - 20% v/v

	<p>Number and timing of application: At a temperature of 20°C:</p> <ul style="list-style-type: none"> <li>- Bacteria and yeasts: 20% v/v, 30 minutes.</li> </ul> <p>At a temperature of 40°C:</p> <ul style="list-style-type: none"> <li>- Bacteria and yeasts: 8% v/v, 15 minutes.</li> </ul>
<b>Category(ies) of users</b>	Professional
<b>Pack sizes and packaging material</b>	<p>100mL to 2L HDPE/PET Bottle</p> <p>1L LDPE Dosing bottle</p> <p>1L HDPE Dosing bottle</p> <p>1 to 5 L HDPE Pouch</p> <p>5 to 30L HDPE Jerrican</p> <p>5-10-20L LDPE/PET Bag in box (cubitainer)</p> <p>60-220L HDPE Drum</p> <p>1000L HDPE Bulk container (IBC)</p>

#### 4.3.1 Use-specific instructions for use

- For healthcare settings: clean carefully the surfaces before application of the product.

#### 4.3.2 Use-specific risk mitigation measures

- The professional user has to wear gloves, coverall and goggles (material to be specified by the authorisation holder within the product information) during the mixing and loading, the application and the rinsing.

- Do not immerse hands in the bath
- Let the equipment soak for the necessary time in the bath of cleaning/disinfectant solution, then empty the bath, and finish by rinsing without touching the equipment that has remained in the tank.

**4.3.3 Where specific to the use, the particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment**

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**4.3.4 Where specific to the use, the instructions for safe disposal of the product and its packaging**

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**4.3.5 Where specific to the use, the conditions of storage and shelf-life of the product under normal conditions of storage**

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**4.4 Use description**

**Use 4 - Disinfection of hard surfaces by wiping / mopping / brushing / scrubbing – Professionals - PT2 – Soluble concentrate (Use 4)**

<b>Product type</b>	PT02 - Disinfectants and algaecides not intended for direct application to humans or animals (Disinfectants)
<b>Where relevant, an exact description of the authorised use</b>	-
<b>Target organism(s) (including development stage)</b>	Scientific name: Common name: Bacteria Development stage:  Scientific name: Common name: Yeasts Development stage:
<b>Field(s) of use</b>	Indoor  Indoors disinfection in private and public areas: institutions, industries (including cosmetic and pharmaceutical industries), and health care facilities (excluding the hospitals)
<b>Application method(s)</b>	Method: Wiping/mopping/brushing/scrubbing without mechanical action. Detailed description:  -

**Application rate(s) and frequencies**

Application Rate: -  
Dilution (%): 8% v/v - 20% v/v  
Number and timing of application:  
At a temperature of 20°C:

- Bacteria and yeasts: 20% v/v, 30 minutes.

At a temperature of 40°C:

- Bacteria and yeasts: 8% v/v, 15 minutes.

**Category(ies) of users**

Professional

**Pack sizes and packaging material**

100mL to 2L HDPE/PET Bottle

1L LDPE Dosing bottle

1L HDPE Dosing bottle

1 to 5 L HDPE Pouch

5 to 30L HDPE Jerrican

5-10-20L LDPE/PET Bag in box (cubitainer)

60-220L HDPE Drum

1000L HDPE Bulk container (IBC)

**4.4.1 Use-specific instructions for use**

- For healthcare settings: clean carefully the surfaces before application of the product.

**4.4.2 Use-specific risk mitigation measures**

- For professional users: wear gloves, coverall and goggles (material to be specified by the authorisation holder within the product information) during the mixing and loading, the application and the rinsing.

- Pour the solution direct on the surface and wipe with a cloth / brush for wiping activities

- A mop/brush with a handle has to be used to apply the in-use solution

- Do not immerse hands in the solution

For professional bystander :

- Do not touch the surface until it is completely dried

For general public :

- Do not touch the surface until it is rinsed and completely dried"

- Children should not be present during disinfection and until the surface is rinsed and dried"

#### **4.4.3 Where specific to the use, the particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment**

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#### **4.4.4 Where specific to the use, the instructions for safe disposal of the product and its packaging**

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#### **4.4.5 Where specific to the use, the conditions of storage and shelf-life of the product under normal conditions of storage**

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#### **4.5 Use description**

**Use 5 - Disinfection of hard surfaces and equipment by manual liquid spraying – Professionals - PT4 – Soluble concentrate (Use 9)**

**Product type**

PT04 - Food and feed area (Disinfectants)

**Where relevant, an exact description of the authorised use**

-

**Target organism(s) (including development stage)**

Scientific name:  
Common name: Bacteria  
Development stage:

Scientific name:  
Common name: Yeasts  
Development stage:

**Field(s) of use**

Indoor

Indoors disinfection in agri-food industries (excluding milk industries), food and feed areas (collective central kitchens, food shops and restaurants).

**Application method(s)**

Method: Spraying  
Detailed description:  
Manual surface spraying

**Application rate(s) and frequencies**

Application Rate: -  
Dilution (%): 8% v/v  
Number and timing of application:  
At a temperature of 40°C:

- Bacteria and yeasts: 8% v/v, 15 minutes.

**Category(ies) of users**

Professional

**Pack sizes and packaging material**

5 to 30L HDPE Jerrican

60-220L HDPE Drum

1000L HDPE Bulk container (IBC)

#### 4.5.1 Use-specific instructions for use

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#### 4.5.2 Use-specific risk mitigation measures

For professional user: wear gloves, protective coverall and chemical goggles (material to be specified by the authorisation holder within the product information) during mixing and loading, application and rinsing.

For professional bystander:

- Do not be present in the treatment area during disinfection process by compression/knapsack sprayer. If it is necessary to be present, wear same PPE as the professional user.
- Do not touch the surface until it is completely dried.

For General public:

- Do not be present in the treatment area during disinfection process by compression sprayer.
- Do not touch the surface until it is rinsed and completely dried.
- Children should not be present during disinfection and until the surface is rinsed and dried.

#### 4.5.3 Where specific to the use, the particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

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#### 4.5.4 Where specific to the use, the instructions for safe disposal of the product and its packaging

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#### 4.5.5 Where specific to the use, the conditions of storage and shelf-life of the product under normal conditions of storage

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#### 4.6 Use description

**Use 6 - Disinfection of hard surfaces by manual spraying using mural cleaning station (liquid/foam spraying) – Professionals - PT4 – Soluble concentrate (Use 10)**

**Product type**

PT04 - Food and feed area (Disinfectants)

**Where relevant, an exact description of the authorised use**

-

**Target organism(s) (including development stage)**

Scientific name:  
Common name: Bacteria  
Development stage:

Scientific name:  
Common name: Yeasts  
Development stage:

**Field(s) of use**

<b>Application method(s)</b>	<p>Indoor</p> <p>Indoors disinfection in agri-food industries (excluding milk industries), food and feed areas (collective central kitchens, food shops and restaurants).</p> <p>Method: Spraying Detailed description: Manual spraying with a mural cleaning station (liquid/foam spraying) with automated dilution.</p>
<b>Application rate(s) and frequencies</b>	<p>Application Rate: - Dilution (%): 8% v/v, Number and timing of application: At a temperature of 40°C:</p> <p>- Bacteria and yeasts: 8% v/v, 15 minutes.</p>
<b>Category(ies) of users</b>	<p>Professional</p>
<b>Pack sizes and packaging material</b>	<p>5 to 30L HDPE Jerrican</p> <p>60-220L HDPE Drum</p> <p>1000L HDPE Bulk container (IBC)</p>

#### 4.6.1 Use-specific instructions for use

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#### 4.6.2 Use-specific risk mitigation measures

For professional user: wear gloves, protective coverall and chemical goggles (material to be specified by the authorisation holder within the product information) during mixing and loading, application and rinsing.

For professional bystander:

- Do not be present in the treatment area during disinfection process by compression/knapsack sprayer. If it is necessary to be present, wear same PPE as the professional user.
- Do not touch the surface until it is completely dried.

For General public:

- Do not be present in the treatment area during disinfection process by compression sprayer.
- Do not touch the surface until it is rinsed and completely dried.



Children should not be present during disinfection and until the surface is rinsed and dried.

#### 4.6.3 Where specific to the use, the particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

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#### 4.6.4 Where specific to the use, the instructions for safe disposal of the product and its packaging

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#### 4.6.5 Where specific to the use, the conditions of storage and shelf-life of the product under normal conditions of storage

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#### 4.7 Use description

##### Use 7 - Disinfection of hard surfaces and equipment by manual dipping/soaking– Professionals - PT4 – Soluble concentrate (Use 11)

##### Product type

PT04 - Food and feed area (Disinfectants)

##### Where relevant, an exact description of the authorised use

-

##### Target organism(s) (including development stage)

Scientific name:  
Common name: Bacteria  
Development stage:

Scientific name:  
Common name: Yeasts  
Development stage:

##### Field(s) of use

Indoor

Indoors disinfection in agri-food industries (excluding milk industries), food and feed areas (collective central kitchens, food shops and restaurants).

##### Application method(s)

Method: Dipping/Soaking  
Detailed description:  
Manual dipping/soaking.

##### Application rate(s) and frequencies

Application Rate: -  
Dilution (%): 8% v/v - 20% v/v  
Number and timing of application:  
At a temperature of 20°C:

- Bacteria and yeasts: 20% v/v, 30 minutes.

At a temperature of 40°C:

- Bacteria and yeasts: 8% v/v, 15 minutes.

**Category(ies) of users**

Professional

**Pack sizes and packaging material**

100mL to 2L HDPE/PET Bottle

1L LDPE Dosing bottle

1L HDPE Dosing bottle

1 to 5 L HDPE Pouch

5 to 30L HDPE Jerrican

5-10-20L LDPE/PET Bag in box (cubitainer)

60-220L HDPE Drum

1000L HDPE Bulk container (IBC)

**4.7.1 Use-specific instructions for use**

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**4.7.2 Use-specific risk mitigation measures**

- The professional user has to wear gloves, coverall and goggles (material to be specified by the authorisation holder within the product information) during the mixing and loading, the application and the rinsing.
- Do not immerse hands in the bath
- Let the equipment soak for the necessary time in the bath of cleaning/disinfectant solution, then empty the bath, and finish by

rinsing without touching the equipment that has remained in the tank.

#### 4.7.3 Where specific to the use, the particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

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#### 4.7.4 Where specific to the use, the instructions for safe disposal of the product and its packaging

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#### 4.7.5 Where specific to the use, the conditions of storage and shelf-life of the product under normal conditions of storage

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#### 4.8 Use description

##### Use 8 - Disinfection of hard surfaces by wiping / mopping / brushing / scrubbing – Professionals - PT4 – Soluble concentrate (Use 12)

##### Product type

PT04 - Food and feed area (Disinfectants)

##### Where relevant, an exact description of the authorised use

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##### Target organism(s) (including development stage)

Scientific name:  
Common name: Bacteria  
Development stage:

Scientific name:  
Common name: Yeasts  
Development stage:

##### Field(s) of use

Indoor

Indoors disinfection in agri-food industries (excluding milk industries), food and feed areas (collective central kitchens, food shops and restaurants).

##### Application method(s)

Method: Wiping/mopping/brushing/scrubbing without mechanical action.  
Detailed description:

-

##### Application rate(s) and frequencies

Application Rate: -  
Dilution (%): 8% v/v - 20% v/v  
Number and timing of application:  
At a temperature of 20°C:

- Bacteria and yeasts: 20% v/v, 30 minutes.

At a temperature of 40°C:

- Bacteria and yeasts: 8% v/v, 15 minutes.

**Category(ies) of users**

Professional

**Pack sizes and packaging material**

100mL to 2L HDPE/PET Bottle

1L LDPE Dosing bottle

1L HDPE Dosing bottle

1 to 5 L HDPE Pouch

5 to 30L HDPE Jerrican

5-10-20L LDPE/PET Bag in box (cubitainer)

60-220L HDPE Drum

1000L HDPE Bulk container (IBC)

**4.8.1 Use-specific instructions for use**

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**4.8.2 Use-specific risk mitigation measures**

- For professional users: wear gloves, coverall and goggles (material to be specified by the authorisation holder within the product information) during the mixing and loading, the application and the rinsing.

- Pour the solution direct on the surface and wipe with a cloth / brush for wiping activities.

- A mop/brush with a handle has to be used to apply the in-use solution.
- Do not immerse hands in the solution.

For professional bystander :

- Do not touch the surface until it is completely dried.

For general public :

- Do not touch the surface until it is rinsed and completely dried".
- Children should not be present during disinfection and until the surface is rinsed and dried".

#### **4.8.3 Where specific to the use, the particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment**

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#### **4.8.4 Where specific to the use, the instructions for safe disposal of the product and its packaging**

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#### **4.8.5 Where specific to the use, the conditions of storage and shelf-life of the product under normal conditions of storage**

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## **5. General directions for use**

### **5.1. Instructions for use**

- Comply with the instructions for use.
- Apply only on non porous surfaces.
- Inform the registration holder if the treatment is ineffective.
- Products have been tested against bacteria, including Enterobacter cloacae, Salmonella Typhimurium, Campylobacter jejuni and Listeria monocytogenes at 20°C and 40°C and Lactobacillus brevis at 40°C.
- During the product dilution, pour almost all water first, then the product, then the remaining of the water.

## 5.2. Risk mitigation measures

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## 5.3. Particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

- IF ON SKIN: Immediately wash skin with plenty of water. Thereafter take off all contaminated clothing and wash it before reuse. Continue to wash the skin with water for 15 minutes. Call a POISON CENTRE or a doctor.
- IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Call 112/ambulance for medical assistance. Information to Healthcare personnel/doctor: The eyes should also be rinsed repeatedly on the way to the doctor if eye exposure to alkaline chemicals (pH > 11), amines and acids like acetic acid, formic acid or propionic acid
- IF SWALLOWED: Immediately rinse mouth. Give something to drink, if exposed person is able to swallow. Do NOT induce vomiting. Call 112/ambulance for medical assistance.
- IF INHALED: Move to fresh air and keep at rest in a position comfortable for breathing. If symptoms: Call 112/ambulance for medical assistance. If no symptoms: Call a POISON CENTRE or a doctor.

## 5.4. Instructions for safe disposal of the product and its packaging

- Do not discharge unused product on the ground, into water courses, into pipes (sink, toilets...) nor down the drains.
- Dispose of unused product, its packaging and all other waste in accordance with local regulations.

## 5.5. Conditions of storage and shelf-life of the product under normal conditions of storage

- Protect from frost.
- Keep away from direct sunlight.
- Do not store above 40°C.
- Shelf-life = 2 years.

## 6. Other information

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