



**Authorisation number:** EU\_0026179-0000

**R4BP 3 asset reference number:** EU-0026179-0002

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## Administrative information

### 1.1. Trade names of the product

SOPUROXID 5C
DEPTIL TR 5
DIS OXI-5+
ANTI-GERM DES OXI-50 TC
Peracid ATR +
FOR-Acid TR +
X-CID TR 50 +

### 1.2. Authorisation holder

<b>Name and address of the authorisation holder</b>	Name	SOPURA
	Address	rue de Trazegnies 199 6180 COURCELLES Belgium
<b>Authorisation number</b>	EU_0026179-0000 1-1	
<b>R4BP 3 asset reference number</b>	EU-0026179-0002	
<b>Date of the authorisation</b>	12/07/2022	
<b>Expiry date of the authorisation</b>	30/06/2032	

### 1.3. Manufacturer(s) of the biocidal products

<b>Name of the manufacturer</b>	SOPURA N.V.
<b>Address of the manufacturer</b>	Rue de Trazegnies 199 6180 COURCELLES Belgium
<b>Location of manufacturing sites</b>	Rue de Trazegnies 199 6180 COURCELLES Belgium

<b>Name of the manufacturer</b>	SOPURA QUIMICA
<b>Address of the manufacturer</b>	Poligon "La Canaleta", Avinguda Júpiter 7 25300 TARREGA Spain
<b>Location of manufacturing sites</b>	Poligon "La Canaleta", Avinguda Júpiter 7 25300 TARREGA Spain

<b>Name of the manufacturer</b>	HYPRED SAS (KERSIA Group)
<b>Address of the manufacturer</b>	55, Boulevard Jules Verger (BP 10180) 35803 DINARD France
<b>Location of manufacturing sites</b>	55, Boulevard Jules Verger (BP 10180) 35803 DINARD France
	Niepruszewo, ul. Kasztanowa 64-320 Buk Poland

#### 1.4. Manufacturer(s) of the active substance(s)

<b>Active substance</b>	1340 - Peracetic acid
<b>Name of the manufacturer</b>	SOPURA N.V.
<b>Address of the manufacturer</b>	Rue de Trazegnies 199 6180 COURCELLES Belgium
<b>Location of manufacturing sites</b>	Rue de Trazegnies 199 6180 COURCELLES Belgium

<b>Active substance</b>	1340 - Peracetic acid
<b>Name of the manufacturer</b>	SOPURA QUIMICA
<b>Address of the manufacturer</b>	Poligon "La Canaleta", Avinguda Júpiter 7 25300 TARREGA Spain
<b>Location of manufacturing sites</b>	Poligon "La Canaleta", Avinguda Júpiter 7 25300 TARREGA Spain
<b>Active substance</b>	1340 - Peracetic acid
<b>Name of the manufacturer</b>	HYPRED SAS (KERSIA Group)
<b>Address of the manufacturer</b>	55, Boulevard Jules Verger (BP 10180) 35803 DINARD France
<b>Location of manufacturing sites</b>	55, Boulevard Jules Verger (BP 10180) 35803 DINARD France
	Niepruszewo, ul. Kasztanowa 64-320 Buk Poland

## 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 (%)
Peracetic acid		Active Substance	79-21-0	201-186-8	5
Sulfuric acid		Non-active substance	7664-93-9	231-639-5	24,04
Hydrogen peroxide		Non-active substance	7722-84-1	231-765-0	16,5
Acetic acid		Non-active substance	64-19-7	200-580-7	5,8

### 2.2. Type of formulation

SL - Soluble concentrate

## 3. Hazard and precautionary statements

## Hazard statements

May intensify fire; oxidiser

May be corrosive to metals.

Harmful if swallowed.Harmful in contact with skin.Harmful if inhaled.

Causes severe skin burns and eye damage.

Causes serious eye damage.

May cause respiratory irritation.

Very toxic to aquatic life with long lasting effects.

## Precautionary statements

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. - No smoking.

Wear protective gloves.

Wear eye protection.

Wear face protection.

IF ON SKIN (or hair):Take off immediately all contaminated clothing.Rinse skin with water.

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/doctor.

Take any precaution to avoid mixing with combustibles .

Avoid breathing vapours.

Wash hands thoroughly after handling.

Do no eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Specific treatment (see information on this label).

Rinse mouth.

Wash contaminated clothing before reuse.

IF SWALLOWED:Call a POISON CENTER/doctor if you feel unwell.

IF SWALLOWED:Rinse mouth.Do NOT induce vomiting.

IF ON SKIN:Wash with plenty of water.

IF INHALED:Remove person to fresh air and keep comfortable for breathing.

Take off immediately all contaminated clothing.And wash it before reuse.

Store locked up.

Store in a well-ventilated place.Keep container tightly closed.

Dispose of contents to in accordance with local/regional/national/international regulations..

Wear protective clothing.

Dispose of container to in accordance with local/regional/national/international regulations..

Keep cool.

Avoid release to the environment.

Collect spillage.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with shower.

Avoid breathing spray.

Do not breathe spray.

Do not breathe vapours.

## 4. Authorised use(s)

### 4.1 Use description

#### Use 1 - Disinfection of surfaces in industrial, public and non-medical healthcare areas - manual treatment (mopping)

**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:

**Field(s) of use**

Indoor

In Industrial, public and non-medical healthcare areas. :  
Disinfection of hard/non-porous surfaces by manual treatment (mopping) with prior cleaning

**Application method(s)**

Method: Manual treatment (mopping).  
Detailed description:  
Diluted product is applied by mopping with the appropriate tool (e.g. flat mop or cleaning cloths).  
After application, the diluted product is drained.

**Application rate(s) and frequencies**

Application Rate: -  
Dilution (%): Against bacteria and yeasts : Non-medical healthcare areas With 0,048% PAA (Dilution of the product at 0,96 % i.e. 960 mL / 100 L) at Room Temperature in 5 min contact time. Application rate : 20 mL/m<sup>2</sup> Use other than in HEALTHCARE With 0,048% PAA (Dilution of the product at 0,96 % i.e. 960 mL / 100 L) in 15 min contact time, efficient use temperature from +4°C up to Room Temperature. Application rate : 30 mL/m<sup>2</sup>  
Number and timing of application:  
/



**Category(ies) of users**

Industrial  
Professional

**Pack sizes and packaging material**

HDPE with screw and venting caps (weight depends on density of product):  
Jerry cans (10 to 25 kg), Drums (200 to 250 kg), IBC (1000 to 1200 kg), 1 L bottles, bulk delivery.

**4.1.1 Use-specific instructions for use**

Items to be disinfected by mopping have to stay sufficiently wet during the required contact time to allow optimal disinfection.

**4.1.2 Use-specific risk mitigation measures**

**Dermal protection :**

Use appropriate safety glasses and/or face shield during the mixing and loading.

**Respiratory protection: .**

Use of respiratory protective equipment (RPE) providing a protection factor of 10 is mandatory during mixing and loading.

Use of respiratory protective equipment (RPE) providing a protection factor of 20 is mandatory during the application phase.

When the product is being used in areas accessible to the public, mark treated areas during the treatment period and indicate possible risks for humans and non-target organisms (e.g. primary and secondary poisoning) as well as first measures to be taken in case of poisoning

Re-entry is only permitted once the air concentrations of peracetic acid and hydrogen peroxide have dropped below the respective reference values (AEC). After the application, the room must be ventilated, preferably by mechanical ventilation. The duration of the ventilation period has to be established by measurement with suitable measurement equipment (specified by the authorization holder).

**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**

See general directions for use..

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

See general directions for use..

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

See general directions for use..

### 4.2 Use description

#### Use 2 - Disinfection of surfaces in industrial, public and non-medical healthcare areas. - manual treatment (spraying)

##### 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:

##### Field(s) of use

Indoor

In Industrial, public and and non-medical healthcare areas. :  
Disinfection of hard/non-porous surfaces by manual treatment (spraying) with prior cleaning

##### Application method(s)

Method: Manual treatment (spraying)  
Detailed description:  
Diluted product is applied by spraying using a small spraying can

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

Application Rate: -  
Dilution (%): Against bacteria and yeasts : Non-medical healthcare areas: With 0,048% PAA (Dilution of the product at 0,96 % i.e. 960 mL / 100 L) at Room Temperature in 5 min contact time. Application rate : 20 mL/m<sup>2</sup>. Use other than in HEALTHCARE With 0,048% PAA (Dilution of the product at 0,96 % i.e. 960 mL / 100 L) in 15 min contact time, efficient use temperature from +4°C up to Room Temperature. Application rate : 30 mL/m<sup>2</sup>.  
Number and timing of application:  
/

##### Category(ies) of users

Industrial  
Professional

## Pack sizes and packaging material

HDPE with screw and venting caps (weight depends on density of product):  
Jerry cans (10 to 25 kg), Drums (200 to 250 kg), IBC (1000 to 1200 kg), 1 L bottles, bulk delivery.

### 4.2.1 Use-specific instructions for use

See general directions for use

### 4.2.2 Use-specific risk mitigation measures

#### **Dermal protection :**

Use appropriate safety glasses and/or face shield during the mixing, loading & application phase.

#### **Respiratory protection: .**

Use of respiratory protective equipment (RPE) providing a protection factor of 10 is mandatory during mixing and loading.

Use of respiratory protective equipment (RPE) providing a protection factor of 4 is mandatory during the application phase.

When the product is being used in areas accessible to the public, mark treated areas during the treatment period and indicate possible risks for humans and non-target organisms (e.g. primary and secondary poisoning) as well as first measures to be taken in case of poisoning

Rinse the pump and disconnect it from the installation before maintenance.

"The treated surface should not be allowed to dry prior to rinsing.

Re-entry of the general public only when surfaces are dried and after sufficient ventilation.

### 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

See general directions for use..

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

See general directions for use..

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

See general directions for use..

#### 4.3 Use description

##### Use 3 - Clean in Place (CIP) in the pharmaceutical and cosmetic industry

###### 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:

###### Field(s) of use

Indoor

In pharmaceutical and cosmetic industry :  
Disinfection of hard/non-porous surfaces by CIP procedures (with circulation) with prior cleaning

###### Application method(s)

Method: By CIP procedure  
Detailed description:  
Diluted product does automatically circulate from the CIP holding tanks through closed pipework and installations.  
After the disinfection procedure, the vessels (pipework and tanks) are drained and rinsed with water under closed system conditions.

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

Application Rate: -  
Dilution (%): Against bacteria and yeasts : With 0,032% PAA (Dilution of the product at 0,64 % i.e. 640 mL / 100 L) in 15 min contact time, efficient use temperature from +4°C up to Room Temperature.  
Number and timing of application:  
/

###### Category(ies) of users

Industrial  
Professional

###### Pack sizes and packaging material

HDPE with screw and venting caps (weight depends on density of product):  
Jerry cans (10 to 25 kg), Drums (200 to 250 kg), IBC (1000 to 1200 kg), 1 L bottles, bulk delivery.



#### 4.3.1 Use-specific instructions for use

See general directions for use

#### 4.3.2 Use-specific risk mitigation measures

**Dermal protection :**  
Use appropriate safety glasses and/or face shield during the mixing & loading phase.  
**Respiratory protection:** .  
Use of respiratory protective equipment (RPE) providing a protection factor of 4 is mandatory during mixing and loading.  
Rinse the pump and disconnect it from the installation before maintenance"

#### 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

See general directions for use..

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

See general directions for use..

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

See general directions for use..

#### 4.4 Use description

**Use 4 - Surface disinfection in greenhouses via spraying by user with personal enclosure (in absence of plants - for general hygiene purpose only)**

**Product type**

PT02 - Disinfectants and algacides 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>	<p>Scientific name: Common name: Bacteria Development stage:</p> <p>Scientific name: Common name: Yeasts Development stage:</p>
<b>Field(s) of use</b>	<p>Indoor</p> <p>In greenhouses : Disinfection of hard/non-porous surfaces by spraying</p>
<b>Application method(s)</b>	<p>Method: Open system: spray treatment Detailed description: Diluted product is automatically applied in all directions via a spraying device The user is present, seated in a personal enclosure/in a closed cabin (ex. tractor equipped with a spraying/foaming device)</p>
<b>Application rate(s) and frequencies</b>	<p>Application Rate: Between 20 and 200 mL/m<sup>2</sup> Dilution (%): Against bacteria and yeasts : With 0,048% PAA (Dilution of the product at 0,96 % i.e. 960 mL / 100 L) in 60 min contact time. Number and timing of application: /</p>
<b>Category(ies) of users</b>	<p>Industrial</p> <p>Professional</p>
<b>Pack sizes and packaging material</b>	<p>HDPE with screw and venting caps (weight depends on density of product): Jerry cans (10 to 25 kg), Drums (200 to 250 kg), IBC (1000 to 1200 kg), 1 L bottles, bulk delivery.</p>

#### 4.4.1 Use-specific instructions for use

See general directions for use

#### 4.4.2 Use-specific risk mitigation measures

**Dermal protection :**  
Use appropriate safety glasses and/or face shield during the mixing & loading phase.  
**Respiratory protection:** .

Use of respiratory protective equipment (RPE) providing a protection factor of 10 is mandatory during mixing and loading and application phase.  
 When the product is being used in areas accessible to the public, mark treated areas during the treatment period and indicate possible risks for humans and non-target organisms (e.g. primary and secondary poisoning) as well as first measures to be taken in case of poisoning  
 The application should only take place with the user in a personal enclosure and no other person is present.  
 Rinse the pump and disconnect it from the installation before maintenance"  
 "The treated surface should not be allowed to dry prior to rinsing".  
 Re-entry of the general public only when surfaces are dried and after sufficient ventilation.

**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**

See general directions for use.

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

See general directions for use..

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

See general directions for use..

**4.5 Use description**

**Use 5 - Surface disinfection in greenhouses via spraying by user without personal enclosure (in absence of plants - for general hygiene purpose only)**

<b>Product type</b>	PT02 - Disinfectants and algacides 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  In greenhouses : Disinfection of hard/non-porous surfaces by spraying
<b>Application method(s)</b>	Method: Open system: spray treatment Detailed description: Diluted product is automatically applied in all directions via a spraying device.

**Application rate(s) and frequencies**

Application Rate: Between 20 and 200 mL/m<sup>2</sup>  
Dilution (%): Against bacteria and yeasts : With 0,048% PAA (Dilution of the product at 0,96 % i.e. 960 mL / 100 L) in 60 min contact time.  
Number and timing of application:  
/

**Category(ies) of users**

Industrial  
Professional

**Pack sizes and packaging material**

HDPE with screw and venting caps (weight depends on density of product):  
Jerry cans (10 to 25 kg), Drums (200 to 250 kg), IBC (1000 to 1200 kg), 1 L bottles, bulk delivery.

**4.5.1 Use-specific instructions for use**

See general directions for use

**4.5.2 Use-specific risk mitigation measures**

**Dermal protection :**

Use appropriate safety glasses and/or face shield during the mixing, loading & application phase.

**Respiratory protection: .**

Use of respiratory protective equipment (RPE) providing a protection factor of 10 is mandatory during mixing and loading.

Use of respiratory protective equipment (RPE) providing a protection factor of 40 is mandatory during the application phase.

When the product is being used in areas accessible to the public, mark treated areas during the treatment period and indicate possible risks for humans and non-target organisms (e.g. primary and secondary poisoning) as well as first measures to be taken in case of poisoning

Rinse the pump and disconnect it from the installation before maintenance

"The treated surface should not be allowed to dry prior to rinsing".

Re-entry of the general public only when surfaces are dried and after sufficient ventilation.

**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**

See general directions for use..



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

See general directions for use..

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

See general directions for use..

#### 4.6 Use description

##### Use 6 - Disinfection of agriculture & horticulture equipment by soaking (in absence of plants - for general hygiene purpose only)

###### 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:

###### Field(s) of use

Indoor

In agriculture/horticulture areas :  
Disinfection of hard/non-porous surfaces/equipment (small parts such as equipment, spare parts, tools, valves, hoses, ...) by immersion in soaking baths with prior cleaning.

###### Application method(s)

Method: Open system: immersion

Detailed description:

The concentrated product is pumped in a soaking bath and diluted to the desired use concentration, before immersion of items to be disinfected

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

Application Rate: -

Dilution (%): Against bacteria and yeasts : With 0,048% PAA (Dilution of the product at 0,96 % i.e. 960 mL / 100 L) in 60 min contact time.

Number and timing of application:

/

###### Category(ies) of users

Industrial

Professional

## Pack sizes and packaging material

HDPE with screw and venting caps (weight depends on density of product):  
Jerry cans (10 to 25 kg), Drums (200 to 250 kg), IBC (1000 to 1200 kg), 1 L bottles, bulk delivery.

### 4.6.1 Use-specific instructions for use

See general directions for use

### 4.6.2 Use-specific risk mitigation measures

#### **Dermal protection :**

Use appropriate safety glasses and/or face shield during the mixing, loading & application phase.

#### **Respiratory protection:**

Use of respiratory protective equipment (RPE) providing a protection factor of 10 is mandatory during mixing and loading.

Use of respiratory protective equipment (RPE) providing a protection factor of 10 is mandatory during the application phase.

Use of respiratory protective equipment (RPE) providing a protection factor of 10 is mandatory during the post-application phase.

When the product is being used in areas accessible to the public, mark treated areas during the treatment period and indicate possible risks for humans and non-target organisms (e.g. primary and secondary poisoning) as well as first measures to be taken in case of poisoning

Rinse the pump and disconnect it from the installation before maintenance"

### 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

See general directions for use..

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

See general directions for use..

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

See general directions for use..

## 4.7 Use description

### Use 7 - Disinfection of surfaces and agriculture/horticulture equipment by spraying (in absence of plants - for general hygiene purpose only)

<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  In agriculture/horticulture areas : Disinfection of hard/non-porous surfaces/equipment by spraying with prior cleaning
<b>Application method(s)</b>	Method: Open system: spray treatment Detailed description: The diluted product is manually sprayed on the surfaces/equipment using spraying equipment. Spraying is only applied downwards and in a horizontal direction.
<b>Application rate(s) and frequencies</b>	Application Rate: Between 20 and 200 mL/m <sup>2</sup> Dilution (%): Against bacteria and yeasts : With 0,048% PAA (Dilution of the product at 0,96 % i.e. 960 mL / 100 L) in 60 min contact time. Number and timing of application: /
<b>Category(ies) of users</b>	Industrial  Professional
<b>Pack sizes and packaging material</b>	HDPE with screw and venting caps (weight depends on density of product): Jerry cans (10 to 25 kg), Drums (200 to 250 kg), IBC (1000 to 1200 kg), 1 L bottles, bulk delivery.

#### 4.7.1 Use-specific instructions for use

See general directions for use

#### 4.7.2 Use-specific risk mitigation measures

**Dermal protection:**

Use appropriate safety glasses and/or face shield during the mixing, loading & application phase.

**Respiratory protection:**

Use of respiratory protective equipment (RPE) providing a protection factor of 10 is mandatory during mixing and loading.

Use of respiratory protective equipment (RPE) providing a protection factor of 20 is mandatory during the application phase.

When the product is being used in areas accessible to the public, mark treated areas during the treatment period and indicate possible risks for humans and non-target organisms (e.g. primary and secondary poisoning) as well as first measures to be taken in case of poisoning.

Rinse the pump and disconnect it from the installation before maintenance"

The treated surface should not be allowed to dry prior to rinsing.

#### 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

See general directions for use..

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

See general directions for use..

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

See general directions for use..

#### 4.8 Use description

##### Use 8 - Disinfection of surfaces and agriculture/horticulture equipment by automatic spraying (in absence of plants - for general hygiene purpose only)

**Product type**

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

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

Not relevant

**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>In agriculture/horticulture areas : Disinfection of hard/non-porous surfaces/equipment by spraying with prior cleaning</p> <p>Method: Spraying Detailed description: Diluted product is applied by spraying in an automated way Spraying is only applied downwards and in a horizontal direction.</p>
<b>Application rate(s) and frequencies</b>	<p>Application Rate: - Dilution (%): Against bacteria and yeasts : With 0,048% PAA (Dilution of the product at 0,96 % i.e. 960 mL / 100 L) in 60 min contact time Number and timing of application: /</p>
<b>Category(ies) of users</b>	<p>Industrial</p> <p>Professional</p>
<b>Pack sizes and packaging material</b>	<p>HDPE with screw and venting caps (weight depends on density of product): Jerry cans (10 to 25 kg), Drums (200 to 250 kg), IBC (1000 to 1200 kg), 1 L bottles, bulk delivery.</p>

#### 4.8.1 Use-specific instructions for use

See general directions for use

#### 4.8.2 Use-specific risk mitigation measures

**Dermal protection:**

Use appropriate safety glasses and/or face shield during the mixing, loading & application phase.

**Respiratory protection:**

Use of respiratory protective equipment (RPE) providing a protection factor of 10 is mandatory during mixing and loading.

When the product is being used in areas accessible to the public, mark treated areas during the treatment period and indicate possible risks for humans and non-target organisms (e.g. primary and secondary poisoning) as well as first measures to be taken in case of poisoning.

The application is automatic and should only take place when no one is present in the treated area.

Rinse the pump and disconnect it from the installation before maintenance"

The treated surface should not be allowed to dry prior to rinsing.

#### 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

See general directions for use..

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

See general directions for use..

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

See general directions for use..

### 4.9 Use description

#### Use 9 - Disinfection of surfaces and agriculture/horticulture equipment by automatic spraying (closed room) (in absence of plants - for general hygiene purpose only)

##### Product type

PT02 - Disinfectants and algacides 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:

##### Field(s) of use

Indoor

In agriculture/horticulture areas :  
Disinfection of hard/non-porous surfaces/equipment by spraying with prior cleaning

##### Application method(s)

Method: By spraying.  
Detailed description:  
Diluted product is applied by spraying in an automated way without any operator being present

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

Application Rate: -  
Dilution (%): Against bacteria and yeasts : With 0,048% PAA (Dilution of the product at 0,96 % i.e. 960 mL / 100 L) in 60 min contact time.  
Number and timing of application:  
/

##### Category(ies) of users

Industrial

Professional

## Pack sizes and packaging material

HDPE with screw and venting caps (weight depends on density of product):  
Jerry cans (10 to 25 kg), Drums (200 to 250 kg), IBC (1000 to 1200 kg), 1 L bottles, bulk delivery.

### 4.9.1 Use-specific instructions for use

See general directions for use

### 4.9.2 Use-specific risk mitigation measures

#### **Dermal protection:**

Use appropriate safety glasses and/or face shield during the mixing & loading phase.

#### **Respiratory protection:**

Use of respiratory protective equipment (RPE) providing a protection factor of 10 is mandatory during mixing and loading.

When the product is being used in areas accessible to the public, mark treated areas during the treatment period and indicate possible risks for humans and non-target organisms (e.g. primary and secondary poisoning) as well as first measures to be taken in case of poisoning.

The application is automatic and should only take place when no one is present in the treated area.

Rinse the pump and disconnect it from the installation before maintenance"

The treated surface should not be allowed to dry prior to rinsing.

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

See general directions for use..

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

See general directions for use..

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

See general directions for use..

## 4.10 Use description

**Use 10 - Disinfection of animal housing – via low-pressure spraying by user with personal enclosure**

<b>Product type</b>	PT03 - Veterinary hygiene (Disinfectants)
<b>Where relevant, an exact description of the authorised use</b>	.
<b>Target organism(s) (including development stage)</b>	<p>Scientific name: Common name: Bacteria Development stage:</p> <p>Scientific name: Common name: Yeasts Development stage:</p> <p>Scientific name: Common name: Viruses Development stage:</p>
<b>Field(s) of use</b>	<p>Indoor</p> <p>In animal housing: Disinfection of hard/non-porous surfaces by spraying with prior cleaning</p>
<b>Application method(s)</b>	<p>Method: Spraying Detailed description:</p> <p>Diluted product is automatically applied in all directions by low-pressure manual spraying via a spraying device The user is present, seated in a personal enclosure/in a closed cabin (ex. tractor equipped with a spraying/foaming device)</p>
<b>Application rate(s) and frequencies</b>	<p>Application Rate: Between 20 and 300 mL/m<sup>2</sup> Dilution (%): Against bacteria, yeasts and viruses : With 0,064% PAA (Dilution of the product at 1,28 % i.e. 1280 mL / 100 L) in 60 min contact time. Number and timing of application: /</p>
<b>Category(ies) of users</b>	<p>Industrial</p> <p>Professional</p>
<b>Pack sizes and packaging material</b>	<p>HDPE with screw and venting caps (weight depends on density of product): Jerry cans (10 to 25 kg), Drums (200 to 250 kg), IBC (1000 to 1200 kg), 1 L bottles, bulk delivery.</p>

#### 4.10.1 Use-specific instructions for use



#### 4.10.1 Use-specific instructions for use

It has to be assured that animals are not present when treatment takes place.

#### 4.10.2 Use-specific risk mitigation measures

**Dermal protection :**

Use appropriate safety glasses and/or face shield during the mixing, loading & application phase.

**Respiratory protection: .**

Use of respiratory protective equipment (RPE) providing a protection factor of 10 is mandatory during mixing and loading and application phase.

When the product is being used in areas accessible to the public, mark treated areas during the treatment period and indicate possible risks for humans and non-target organisms (e.g. primary and secondary poisoning) as well as first measures to be taken in case of poisoning

The application should only take place with the user in a personal enclosure and no other person is present.

Rinse the pump and disconnect it from the installation before maintenance"

"The treated surface should not be allowed to dry prior to rinsing".

Only treatment of empty animal housings. Re-entry of animals only after adequate ventilation and when surfaces are dried.

Re-entry of the general public only when surfaces are dried and after sufficient ventilation.

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

See general directions for use..

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

See general directions for use..

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

See general directions for use..

#### 4.11 Use description

**Use 11 - Disinfection of animal housing via low-pressure manual spraying by user without personal enclosure**

**Product type**

PT03 - Veterinary hygiene (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:

Scientific name:  
Common name: Viruses  
Development stage:

**Field(s) of use**

Indoor

In animal housing :  
Disinfection of hard/non-porous surfaces by spraying with prior cleaning

**Application method(s)**

Method: Open system: spray treatment  
Detailed description:

Diluted product is automatically applied in all directions by low-pressure automatic spraying via a spraying device

**Application rate(s) and frequencies**

Application Rate: Between 20 and 300 mL/m<sup>2</sup>  
Dilution (%): Against bacteria, yeasts and viruses : With 0,064% PAA (Dilution of the product at 1,28 % i.e.1280 mL / 100 L) in 60 min contact time.

Number and timing of application:  
/

**Category(ies) of users**

Industrial

Professional

**Pack sizes and packaging material**

HDPE with screw and venting caps (weight depends on density of product):  
Jerry cans (10 to 25 kg), Drums (200 to 250 kg), IBC (1000 to 1200 kg), 1 L bottles, bulk delivery.

#### 4.11.1 Use-specific instructions for use

It has to be assured that animals are not present when treatment takes place.

#### 4.11.2 Use-specific risk mitigation measures

**Dermal protection:**  
Use appropriate safety glasses and/or face shield during the mixing, loading & application phase.

**Respiratory protection:**  
Use of respiratory protective equipment (RPE) providing a protection factor of 10 is mandatory during mixing and loading.  
Use of respiratory protective equipment (RPE) providing a protection factor of 40 is mandatory during the application phase.  
When the product is being used in areas accessible to the public, mark treated areas during the treatment period and indicate possible risks for humans and non-target organisms (e.g. primary and secondary poisoning) as well as first measures to be taken in case of poisoning  
Rinse the pump and disconnect it from the installation before maintenance"  
"The treated surface should not be allowed to dry prior to rinsing".

Only treatment of empty animal housings. Re-entry of animals only after adequate ventilation and when surfaces are dried.  
Re-entry of the general public only when surfaces are dried and after sufficient ventilation.

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

See general directions for use..

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

See general directions for use..

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

See general directions for use..

### 4.12 Use description

#### Use 12 - Disinfection of boots in footbaths in animal housing/ husbandries

<b>Product type</b>	PT03 - Veterinary hygiene (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:  Scientific name:

	Common name: Viruses Development stage:
<b>Field(s) of use</b>	Indoor  in animal housing/ husbandries : Disinfection of boots by dipping (not for walk-through) with prior cleaning.
<b>Application method(s)</b>	Method: Dipping Detailed description:  Diluted product is put in the footbath No rinse needed
<b>Application rate(s) and frequencies</b>	Application Rate: - Dilution (%): Against bacteria, yeasts and viruses : With 0,064% PAA (Dilution of the product at 1,28 % i.e. 1280 mL / 100 L) in 60 min contact time. Number and timing of application: /
<b>Category(ies) of users</b>	Industrial  Professional
<b>Pack sizes and packaging material</b>	HDPE with screw and venting caps (weight depends on density of product): Jerry cans (10 to 25 kg), Drums (200 to 250 kg), IBC (1000 to 1200 kg), 1 L bottles, bulk delivery.

#### 4.12.1 Use-specific instructions for use

See general directions for use

#### 4.12.2 Use-specific risk mitigation measures

**Dermal protection :**

Use appropriate safety glasses and/or face shield during the mixing, loading & application phase.

**Respiratory protection: .**

Use of respiratory protective equipment (RPE) providing a protection factor of 10 is mandatory during mixing and loading.

Use of respiratory protective equipment (RPE) providing a protection factor of 10 is mandatory during the application phase.

Use of respiratory protective equipment (RPE) providing a protection factor of 10 is mandatory during the post-application phase.

When the product is being used in areas accessible to the public, mark treated areas during the treatment period and indicate possible risks for humans and non-target organisms (e.g. primary and secondary poisoning) as well as first measures to be taken in case of poisoning

Rinse the pump and disconnect it from the installation before maintenance.

Re-entry of the general public only when surfaces are dried and after sufficient ventilation.

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

See general directions for use.
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**4.12.4 Where specific to the use, the instructions for safe disposal of the product and its packaging**

See general directions for use.
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**4.12.5 Where specific to the use, the conditions of storage and shelf-life of the product under normal conditions of storage**

See general directions for use.
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**4.13 Use description**

**Use 13 - Disinfection of equipment by dipping**

<b>Product type</b>	PT03 - Veterinary hygiene (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:  Scientific name: Common name: Viruses Development stage:
<b>Field(s) of use</b>	Indoor  Disinfection of hard/non-porous surfaces/equipment (small parts such as equipment, spare parts, tools, valves, hoses, ...) by immersion in soaking baths with prior cleaning
<b>Application method(s)</b>	Method: Soaking. Detailed description:  The concentrated product is pumped in a soaking bath and diluted to the desired use concentration, before immersion of items to be disinfected

**Application rate(s) and frequencies**

Application Rate: -  
Dilution (%): Against bacteria, yeasts and viruses : With 0,064% PAA (Dilution of the product at 1,28 % i.e. 1280 mL / 100 L) in 60 min contact time.  
Number and timing of application:  
/

**Category(ies) of users**

Industrial  
Professional

**Pack sizes and packaging material**

HDPE with screw and venting caps (weight depends on density of product):  
Jerry cans (10 to 25 kg), Drums (200 to 250 kg), IBC (1000 to 1200 kg), 1 L bottles, bulk delivery.

**4.13.1 Use-specific instructions for use**

See general directions for use

**4.13.2 Use-specific risk mitigation measures**

**Dermal protection :**

Use appropriate safety glasses and/or face shield during the mixing, loading & application phase.

**Respiratory protection: .**

Use of respiratory protective equipment (RPE) providing a protection factor of 10 is mandatory during mixing and loading.

Use of respiratory protective equipment (RPE) providing a protection factor of 10 is mandatory during the application phase.

Use of respiratory protective equipment (RPE) providing a protection factor of 10 is mandatory during the post-application phase.

When the product is being used in areas accessible to the public, mark treated areas during the treatment period and indicate possible risks for humans and non-target organisms (e.g. primary and secondary poisoning) as well as first measures to be taken in case of poisoning

Rinse the pump and disconnect it from the installation before maintenance

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

See general directions for use..

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

See general directions for use..

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

See general directions for use..

**4.14 Use description**

**Use 14 - Disinfection in Aseptic Filling Lines (crown corks, cheese moulds and food crates) - Automated spraying closed systems**

<b>Product type</b>	PT04 - Food and feed area (Disinfectants)
<b>Where relevant, an exact description of the authorised use</b>	.
<b>Target organism(s) (including development stage)</b>	<p>Scientific name: Common name: Bacteria Development stage:</p> <p>Scientific name: Common name: Yeasts Development stage:</p> <p>Scientific name: Common name: Bacterial spores Development stage:</p> <p>Scientific name: Common name: Viruses Development stage:</p> <p>Scientific name: Common name: Bacteriophages Development stage:</p>
<b>Field(s) of use</b>	<p>Indoor</p> <p>In food and beverage industry : Disinfection of hard/non-porous surfaces by spraying with prior cleaning</p>
<b>Application method(s)</b>	<p>Method: Spraying Detailed description:</p> <p>Diluted product is sprayed on the surfaces in an automated way without any operator being present</p>
<b>Application rate(s) and frequencies</b>	<p>Application Rate: - Dilution (%): - Against bacteria and yeasts : With 0,048% PAA (Dilution of the product at 0,96% i.e. 960 mL / 100 L) in 15 min contact time , efficient use temperature from +4°C</p>

up to Room Temperature. - Against bacteria (including bacterial spores) and yeasts :  
With 0,064% PAA (Dilution of the product at 1,28 % i.e. 1280 mL / 100 L) in 60 min  
contact time, efficient use temperature from +4°C up to Room Temperature. For  
additional activity against viruses (including bacteriophages): the product should be  
used at Room Temperature.  
Number and timing of application:  
/

**Category(ies) of users**

Industrial  
Professional

**Pack sizes and packaging material**

HDPE with screw and venting caps (weight depends on density of product):  
Jerry cans (10 to 25 kg), Drums (200 to 250 kg), IBC (1000 to 1200 kg), 1 L bottles, bulk  
delivery.

**4.14.1 Use-specific instructions for use**

See general directions for use

**4.14.2 Use-specific risk mitigation measures**

**Dermal protection:**  
Use appropriate safety glasses and/or face shield during the mixing, loading & application phase.  
**Respiratory protection:**  
Use of respiratory protective equipment (RPE) providing a protection factor of 10 is mandatory during mixing and loading.  
When the product is being used in areas accessible to the public, mark treated areas during the treatment period and indicate possible risks for humans and non-target organisms (e.g. primary and secondary poisoning) as well as first measures to be taken in case of poisoning.  
The application is automatic and should only take place when no one is present in the treated area.  
Rinse the pump and disconnect it from the installation before maintenance  
  
The treated surface should not be allowed to dry prior to rinsing.

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

See general directions for use..

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



See general directions for use..

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

See general directions for use..

#### 4.15 Use description

##### Use 15 - Disinfection of equipment in the food and beverage industry by immersion

<b>Product type</b>	PT04 - Food and feed area (Disinfectants)
<b>Where relevant, an exact description of the authorised use</b>	Not relevant
<b>Target organism(s) (including development stage)</b>	Scientific name: Common name: Bacteria Development stage:  Scientific name: Common name: Yeasts Development stage:  Scientific name: Common name: Bacterial spores Development stage:  Scientific name: Common name: Viruses Development stage:  Scientific name: Common name: Bacteriophages Development stage:
<b>Field(s) of use</b>	Indoor  In food and beverage industry : Disinfection of hard/non-porous surfaces (small parts such as equipment, spare parts, tools, valves, hoses, ...) by immersion in soaking baths with prior cleaning
<b>Application method(s)</b>	Method: Soaking. Detailed description:  The concentrated product is pumped in a soaking bath and diluted to the desired use concentration, before immersion of items to be disinfected
<b>Application rate(s) and frequencies</b>	Application Rate: - Dilution (%): - Against bacteria and yeasts : With 0,048% PAA (Dilution of the product at 0,96% i.e. 960 mL / 100 L) in 15 min contact time , efficient use temperature from +4°C up to Room Temperature. - Against bacteria (including bacterial spores) and yeasts : With 0,064% PAA (Dilution of the product at 1,28 % i.e. 1280 mL / 100 L) in 60 min contact time, efficient use temperature from +4°C up to Room Temperature. For additional activity against viruses (including bacteriophages): the product should be used at Room Temperature. Number and timing of application: /

**Category(ies) of users**

Industrial  
Professional

**Pack sizes and packaging material**

HDPE with screw and venting caps (weight depends on density of product):  
Jerry cans (10 to 25 kg), Drums (200 to 250 kg), IBC (1000 to 1200 kg), 1 L bottles, bulk delivery.

**4.15.1 Use-specific instructions for use**

See general directions for use

**4.15.2 Use-specific risk mitigation measures**

**Dermal protection :**

Use appropriate safety glasses and/or face shield during the mixing, loading & application phase.

**Respiratory protection: .**

Use of respiratory protective equipment (RPE) providing a protection factor of 10 is mandatory during mixing and loading.

Use of respiratory protective equipment (RPE) providing a protection factor of 10 is mandatory during the application phase.

Use of respiratory protective equipment (RPE) providing a protection factor of 10 is mandatory during the post-application phase.

When the product is being used in areas accessible to the public, mark treated areas during the treatment period and indicate possible risks for humans and non-target organisms (e.g. primary and secondary poisoning) as well as first measures to be taken in case of poisoning

Rinse the pump and disconnect it from the installation before maintenance.

Re-entry of the general public only when surfaces are dried and after sufficient ventilation.

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

See general directions for use..

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

See general directions for use..

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

See general directions for use..

#### 4.16 Use description

##### Use 16 - Disinfection of heat and ion exchangers, membrane filters and glass and PET bottles – CIP procedures

###### 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:

Scientific name:  
Common name: Bacterial spores  
Development stage:

Scientific name:  
Common name: Viruses  
Development stage:

Scientific name:  
Common name: Bacteriophages  
Development stage:

###### Field(s) of use

Indoor

In food and beverage industry :  
Disinfection of hard/non-porous surfaces by CIP procedures (with circulation) with prior cleaning

###### Application method(s)

Method: Closed system  
Detailed description:

Diluted product does automatically circulate from the CIP holding tanks through closed pipework and installations.  
After the disinfection procedure, the vessels (pipework and tanks) are drained and rinsed with water under closed system conditions.

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

Application Rate: -  
Dilution (%): - Against bacteria and yeasts : With 0,048% PAA (Dilution of the product at 0,96% i.e. 960 mL / 100 L) in 15 min contact time , efficient use temperature from +4°C up to Room Temperature. - Against bacteria (including bacterial spores) and yeasts : With 0,064% PAA (Dilution of the product at 1,28 % i.e. 1280 mL / 100 L) in 60 min contact time, efficient use temperature from +4°C up to Room Temperature. For additional activity against viruses (including bacteriophages): the product should be used at Room Temperature.  
Number and timing of application:  
/

**Category(ies) of users**

Industrial  
Professional

**Pack sizes and packaging material**

HDPE with screw and venting caps (weight depends on density of product):  
Jerry cans (10 to 25 kg), Drums (200 to 250 kg), IBC (1000 to 1200 kg), 1 L bottles, bulk delivery.

**4.16.1 Use-specific instructions for use**

See general directions for use

**4.16.2 Use-specific risk mitigation measures**

**Dermal protection:**

Use appropriate safety glasses and/or face shield during the mixing & loading phase.

**Respiratory protection:**

Use of respiratory protective equipment (RPE) providing a protection factor of 4 is mandatory during mixing and loading.

Rinse the pump and disconnect it from the installation before maintenance

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

See general directions for use..

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

See general directions for use..

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

See general directions for use..

**4.17 Use description**

**Use 17 - Disinfection of surfaces and equipment by low pressure spraying – spraying with personal enclosure**

<b>Product type</b>	PT04 - Food and feed area (Disinfectants)
<b>Where relevant, an exact description of the authorised use</b>	-
<b>Target organism(s) (including development stage)</b>	<p>Scientific name: Common name: Bacteria Development stage:</p> <p>Scientific name: Common name: Yeasts Development stage:</p> <p>Scientific name: Common name: Bacterial spores Development stage:</p> <p>Scientific name: Common name: Viruses Development stage:</p> <p>Scientific name: Common name: bacteriophages Development stage:</p>
<b>Field(s) of use</b>	<p>Indoor</p> <p>In food industry : Disinfection of hard/non-porous surfaces/equipment by spraying with prior cleaning</p>
<b>Application method(s)</b>	<p>Method: Spraying Detailed description:</p> <p>Diluted product is automatically applied in all directions by low-pressure spraying via a spraying device The user is present, seated in a personal enclosure/in a closed cabin (ex. tractor equipped with a spraying/foaming device).</p>
<b>Application rate(s) and frequencies</b>	<p>Application Rate: Between 20 and 200 mL/m<sup>2</sup> Dilution (%): - Against bacteria and yeasts : With 0,048% PAA (Dilution of the product at 0,96% i.e. 960 mL / 100 L) in 15 min contact time , efficient use temperature from +4°C up to Room Temperature. - Against bacteria (including bacterial spores) and yeasts : With 0,064% PAA (Dilution of the product at 1,28 % i.e. 1280 mL / 100 L) in 60 min contact time, efficient use temperature from +4°C up to Room Temperature. For additional activity against viruses (including bacteriophages): the product should be used at Room Temperature. Number and timing of application: /</p>
<b>Category(ies) of users</b>	<p>Industrial</p> <p>Professional</p>
<b>Pack sizes and packaging material</b>	HDPE with screw and venting caps (weight depends on density of product):

Jerry cans (10 to 25 kg), Drums (200 to 250 kg), IBC (1000 to 1200 kg), 1 L bottles, bulk delivery.

#### 4.17.1 Use-specific instructions for use

See general directions for use

#### 4.17.2 Use-specific risk mitigation measures

**Dermal protection:**

Use appropriate safety glasses and/or face shield during the mixing, loading & application phase.

**Respiratory protection:**

Use of respiratory protective equipment (RPE) providing a protection factor of 10 is mandatory during mixing and loading and application phase.

When the product is being used in areas accessible to the public, mark treated areas during the treatment period and indicate possible risks for humans and non-target organisms (e.g. primary and secondary poisoning) as well as first measures to be taken in case of poisoning.

The application should only take place with the user in a personal enclosure and no other person is present.

Rinse the pump and disconnect it from the installation before maintenance"

The treated surface should not be allowed to dry prior to rinsing.

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

See general directions for use..

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

See general directions for use..

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

See general directions for use..

#### 4.18 Use description

**Use 18 - Disinfection of surfaces and equipment by low pressure spraying – spraying without personal enclosure**

<b>Product type</b>	PT04 - Food and feed area (Disinfectants)
<b>Where relevant, an exact description of the authorised use</b>	-
<b>Target organism(s) (including development stage)</b>	<p>Scientific name: Common name: Bacteria Development stage:</p> <p>Scientific name: Common name: Yeasts Development stage:</p> <p>Scientific name: Common name: Bacterial spores Development stage:</p> <p>Scientific name: Common name: Viruses Development stage:</p> <p>Scientific name: Common name: Bacteriophages Development stage:</p>
<b>Field(s) of use</b>	<p>Indoor</p> <p>In food industry : Disinfection of hard/non-porous surfaces/equipment by spraying with prior cleaning</p>
<b>Application method(s)</b>	<p>Method: Spraying Detailed description:</p> <p>Diluted product is automatically applied in all directions by low-pressure spraying via a spraying device.</p>
<b>Application rate(s) and frequencies</b>	<p>Application Rate: Between 20 and 200 mL/m<sup>2</sup> Dilution (%): - Against bacteria and yeasts : With 0,048% PAA (Dilution of the product at 0,96% i.e. 960 mL / 100 L) in 15 min contact time , efficient use temperature from +4°C up to Room Temperature. - Against bacteria (including bacterial spores) and yeasts : With 0,064% PAA (Dilution of the product at 1,28 % i.e. 1280 mL / 100 L) in 60 min contact time, efficient use temperature from +4°C up to Room Temperature. For additional activity against viruses (including bacteriophages): the product should be used at Room Temperature. Number and timing of application: /</p>
<b>Category(ies) of users</b>	<p>Industrial</p> <p>Professional</p>
<b>Pack sizes and packaging material</b>	<p>HDPE with screw and venting caps (weight depends on density of product): Jerry cans (10 to 25 kg), Drums (200 to 250 kg), IBC (1000 to 1200 kg), 1 L bottles, bulk delivery.</p>

#### 4.18.1 Use-specific instructions for use

See general directions for use

#### 4.18.2 Use-specific risk mitigation measures

**Dermal protection :**

Use appropriate safety glasses and/or face shield during the mixing, loading & application phase.

**Respiratory protection: .**

Use of respiratory protective equipment (RPE) providing a protection factor of 10 is mandatory during mixing and loading.

Use of respiratory protective equipment (RPE) providing a protection factor of 40 is mandatory during the application phase.

When the product is being used in areas accessible to the public, mark treated areas during the treatment period and indicate possible risks for humans and non-target organisms (e.g. primary and secondary poisoning) as well as first measures to be taken in case of poisoning.

Rinse the pump and disconnect it from the installation before maintenance

The treated surface should not be allowed to dry prior to rinsing.

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

See general directions for use..

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

See general directions for use..

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

See general directions for use..

#### 4.19 Use description

##### Use 19 - Disinfection of surfaces and equipment by low pressure spraying, manually

**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:

Scientific name:  
Common name: Bacterial spores  
Development stage:

Scientific name:  
Common name: Viruses  
Development stage:

Scientific name:  
Common name: Bacteriophages  
Development stage:

**Field(s) of use**

Indoor

In food industry :  
Disinfection of hard/non-porous surfaces/equipment by spraying with prior cleaning

**Application method(s)**

Method: Manual application - spraying.  
Detailed description:

Diluted product is manually applied by low-pressure spraying, only downwards and horizontal.

**Application rate(s) and frequencies**

Application Rate: Between 20 and 200 mL/m<sup>2</sup>  
Dilution (%): - Against bacteria and yeasts : With 0,048% PAA (Dilution of the product at 0,96% i.e. 960 mL / 100 L) in 15 min contact time , efficient use temperature from +4°C up to Room Temperature. - Against bacteria (including bacterial spores) and yeasts : With 0,064% PAA (Dilution of the product at 1,28 % i.e. 1280 mL / 100 L) in 60 min contact time, efficient use temperature from +4°C up to Room Temperature. For additional activity against viruses (including bacteriophages): the product should be used at Room Temperature.  
Number and timing of application:  
/

**Category(ies) of users**

Industrial  
Professional

**Pack sizes and packaging material**

HDPE with screw and venting caps (weight depends on density of product):  
Jerry cans (10 to 25 kg), Drums (200 to 250 kg), IBC (1000 to 1200 kg), 1 L bottles, bulk delivery.

**4.19.1 Use-specific instructions for use**

See general directions for use

#### 4.19.2 Use-specific risk mitigation measures

**Dermal protection :**

Use appropriate safety glasses and/or face shield during the mixing, loading & application phase.

**Respiratory protection: .**

Use of respiratory protective equipment (RPE) providing a protection factor of 10 is mandatory during mixing and loading.

Use of respiratory protective equipment (RPE) providing a protection factor of 20 is mandatory during the application phase.

When the product is being used in areas accessible to the public, mark treated areas during the treatment period and indicate possible risks for humans and non-target organisms (e.g. primary and secondary poisoning) as well as first measures to be taken in case of poisoning.

Rinse the pump and disconnect it from the installation before maintenance"

The treated surface should not be allowed to dry prior to rinsing.

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

See general directions for use..

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

See general directions for use..

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

See general directions for use..

#### 4.20 Use description

##### Use 20 - Disinfection of surfaces and equipment by low pressure spraying, automatically

<b>Product type</b>	PT04 - Food and feed area (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:  Scientific name:

Common name: Bacterial spores  
Development stage:

Scientific name:  
Common name: Viruses  
Development stage:

Scientific name:  
Common name: Bacteriophages  
Development stage:

**Field(s) of use**

Indoor

In food industry :  
Disinfection of hard/non-porous surfaces/equipment by spraying with prior cleaning

**Application method(s)**

Method: Spraying  
Detailed description:

The diluted product is sprayed on the equipment, on conveyor belt, automatically.  
The user is present, seated in a personal enclosure/in a closed cabin (ex. tractor equipped with a spraying/foaming device).  
Spraying is only applied downwards and in a horizontal direction.

**Application rate(s) and frequencies**

Application Rate: Between 20 and 200 mL/m<sup>2</sup>  
Dilution (%): - Against bacteria and yeasts : With 0,048% PAA (Dilution of the product at 0,96% i.e. 960 mL / 100 L) in 15 min contact time , efficient use temperature from +4°C up to Room Temperature. - Against bacteria (including bacterial spores) and yeasts : With 0,064% PAA (Dilution of the product at 1,28 % i.e. 1280 mL / 100 L) in 60 min contact time, efficient use temperature from +4°C up to Room Temperature. For additional activity against viruses (including bacteriophages): the product should be used at Room Temperature.  
Number and timing of application:  
/

**Category(ies) of users**

Industrial  
Professional

**Pack sizes and packaging material**

HDPE with screw and venting caps (weight depends on density of product):  
Jerry cans (10 to 25 kg), Drums (200 to 250 kg), IBC (1000 to 1200 kg), 1 L bottles, bulk delivery.

**4.20.1 Use-specific instructions for use**

See general directions for use

#### 4.20.2 Use-specific risk mitigation measures

**Dermal protection :**

Use appropriate safety glasses and/or face shield during the mixing, loading & application phase.

**Respiratory protection:**

Use of respiratory protective equipment (RPE) providing a protection factor of 10 is mandatory during mixing and loading.

RPE are not mandatory during the application phase, on the condition that the operator remains in the control room and do not enter the treated area.

When the product is being used in areas accessible to the public, mark treated areas during the treatment period and indicate possible risks for humans and non-target organisms (e.g. primary and secondary poisoning) as well as first measures to be taken in case of poisoning.

The application is automatic and should only take place when no one is present in the treated area.

Rinse the pump and disconnect it from the installation before maintenance"

The treated surface should not be allowed to dry prior to rinsing.

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

See general directions for use.

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

See general directions for use.

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

See general directions for use.

#### 4.21 Use description

##### Use 21 - Disinfection of surfaces and equipment by low pressure spraying – automatic spraying (closed room)

**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:

Scientific name:  
Common name: Bacterial spores  
Development stage:

Scientific name:  
Common name: Viruses  
Development stage:

Scientific name:  
Common name: Bacteriophages  
Development stage:

**Field(s) of use**

Indoor

In food industry :  
Disinfection of hard/non-porous surfaces/equipment by spraying with prior cleaning

**Application method(s)**

Method: Spraying  
Detailed description:

The diluted solution is sprayed on the surfaces in an automated way without any user being present.

**Application rate(s) and frequencies**

Application Rate: Between 20 and 200 mL/m<sup>2</sup>  
Dilution (%): - Against bacteria and yeasts : With 0,048% PAA (Dilution of the product at 0,96% i.e. 960 mL / 100 L) in 15 min contact time , efficient use temperature from +4°C up to Room Temperature. - Against bacteria (including bacterial spores) and yeasts : With 0,064% PAA (Dilution of the product at 1,28 % i.e. 1280 mL / 100 L) in 60 min contact time, efficient use temperature from +4°C up to Room Temperature. For additional activity against viruses (including bacteriophages): the product should be used at Room Temperature.  
Number and timing of application:  
/

**Category(ies) of users**

Industrial  
Professional

**Pack sizes and packaging material**

HDPE with screw and venting caps (weight depends on density of product):  
Jerry cans (10 to 25 kg), Drums (200 to 250 kg), IBC (1000 to 1200 kg), 1 L bottles, bulk delivery.

**4.21.1 Use-specific instructions for use**

See general directions for use

**4.21.2 Use-specific risk mitigation measures**

**Dermal protection:**

Use appropriate safety glasses and/or face shield during the mixing, loading & application phase.

**Respiratory protection:**

Use of respiratory protective equipment (RPE) providing a protection factor of 10 is mandatory during mixing and loading.

Use of respiratory protective equipment (RPE) is not mandatory during the application phase, on condition that the operator do not enter the treated area and remains in the control room.

When the product is being used in areas accessible to the public, mark treated areas during the treatment period and indicate possible risks for humans and non-target organisms (e.g. primary and secondary poisoning) as well as first measures to be taken in case of poisoning.

Rinse the pump and disconnect it from the installation before maintenance"

The treated surface should not be allowed to dry prior to rinsing.

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

See general directions for use..

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

See general directions for use..

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

See general directions for use..

**4.22 Use description**

**Use 22 - Disinfection of inner surfaces (pipelines, tanks, vessels, ...) by CIP**

<b>Product type</b>	PT04 - Food and feed area (Disinfectants)
<b>Where relevant, an exact description of the authorised use</b>	-
<b>Target organism(s) (including development stage)</b>	<p>Scientific name: Common name: Bacteria Development stage:</p> <p>Scientific name: Common name: Yeasts Development stage:</p> <p>Scientific name: Common name: Bacterial spores Development stage:</p> <p>Scientific name: Common name: Viruses Development stage:</p> <p>Scientific name: Common name: Bacteriophages Development stage:</p>

<b>Field(s) of use</b>	Indoor  In food industry : Disinfection of hard/non-porous surfaces by CIP procedures (with circulation) with prior cleaning
<b>Application method(s)</b>	Method: Closed system Detailed description:  Diluted product does automatically circulate from the CIP holding tanks through closed pipework and installations. After the disinfection procedure, the vessels (pipework and tanks) are drained and rinsed with water under closed system conditions.
<b>Application rate(s) and frequencies</b>	Application Rate: - Dilution (%): - Against bacteria and yeasts : With 0,048% PAA (Dilution of the product at 0,96% i.e. 960 mL / 100 L) in 15 min contact time , efficient use temperature from +4°C up to Room Temperature. - Against bacteria (including bacterial spores) and yeasts : With 0,064% PAA (Dilution of the product at 1,28 % i.e. 1280 mL / 100 L) in 60 min contact time, efficient use temperature from +4°C up to Room Temperature. For additional activity against viruses (including bacteriophages): the product should be used at Room Temperature. Number and timing of application: /
<b>Category(ies) of users</b>	Industrial  Professional
<b>Pack sizes and packaging material</b>	HDPE with screw and venting caps (weight depends on density of product): Jerry cans (10 to 25 kg), Drums (200 to 250 kg), IBC (1000 to 1200 kg), 1 L bottles, bulk delivery.

#### 4.22.1 Use-specific instructions for use

See general directions for use

#### 4.22.2 Use-specific risk mitigation measures

**Dermal protection :**

Use appropriate safety glasses and/or face shield during the mixing & loading phase.

**Respiratory protection: .**

Rinse the pump and disconnect it from the installation before maintenance"

Use of respiratory protective equipment (RPE) providing a protection factor of 4 is mandatory during mixing and loading.

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

See general directions for use..

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

See general directions for use..

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

See general directions for use..

**4.23 Use description**

**Use 23 - Disinfection of water used for rinsing of recycled items during the washing process**

**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

In food industry :  
Disinfection of water (in clean conditions) used for rinsing of recycled items = Water from drinking water quality shortly stored in tanks until use to rinse items such as bottles. The water should be disinfected to avoid recontamination and in a extent to avoid cross-contamination of inner bottle surfaces

**Application method(s)**

Method: Closed system  
Detailed description:  
Concentrated product will be pumped into a reservoir from which it is continuously dosed into the water stream.  
Dilution of the product to the intended in-use concentration occurs in the water stream.



	This application is a closed, automated process.
<b>Application rate(s) and frequencies</b>	Application Rate: - Dilution (%): Against bacteria and yeasts : With 0.008% PAA (Dilution of the product at 0.16 % i.e. 160 mL / 100 L) at Room Temperature in 15 min contact time. Number and timing of application: /
<b>Category(ies) of users</b>	Industrial  Professional
<b>Pack sizes and packaging material</b>	HDPE with screw and venting caps (weight depends on density of product): Jerry cans (10 to 25 kg), Drums (200 to 250 kg), IBC (1000 to 1200 kg), 1 L bottles, bulk delivery.

#### 4.23.1 Use-specific instructions for use

See general directions for use

#### 4.23.2 Use-specific risk mitigation measures

**Dermal protection:**

Use appropriate safety glasses and/or face shield during the mixing, loading & application phase.

**Respiratory protection:** Not mandatory.

When the product is being used in areas accessible to the public, mark treated areas during the treatment period and indicate possible risks for humans and non-target organisms (e.g. primary and secondary poisoning) as well as first measures to be taken in case of poisoning

Rinse the pump and disconnect it from the installation before maintenance"

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

See general directions for use..

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

See general directions for use..

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

See general directions for use..

### 5. General directions for use

#### 5.1. Instructions for use

1. All the surfaces to be disinfected must be cleaned before the disinfection procedure
  2. Disinfection cycle :
    - Products must be diluted in potable water before use.
    - Dilution rate & contact time depends on the use considered. Please refer to the description of application method related to each use.
    - Final rinsing (with potable water) is mandatory : after the disinfection procedure, treated surfaces are rinsed with water and the water is drained into the sewer system. For exceptions, please refer to the description of application method related to each use. Only for use in areas that are inaccessible to the general public and companion animals. No access for the general public during treatment.
- Disinfection procedures by CIP : Final rinsing step (with potable water).  
After the disinfection procedure, CIP vessels (pipework and tanks) are drained and rinsed with water under closed system conditions
- Disinfection procedures by dipping : The bath is not intended to be re-used. Use the bath only once a day after work & replace it by a fresh solution daily.
- Disinfection procedures by spraying : the surfaces to be disinfected must be wet enough in order to keep them wet during the required contact time for optimal disinfection. Then, the user should pay attention to wet surfaces completely with the disinfectant solution.  
The Application Rate for spraying of diluted product must be between 20 and 30 mL/m<sup>2</sup>

#### 5.2. Risk mitigation measures

##### Dermal protection:

Wear protective chemical resistant gloves during product handling phase (glove material to be specified by the authorisation holder within the product information).  
A protective coverall which is impermeable for the biocidal product shall be worn (coverall material to be specified by the authorisation holder within the product information).

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

#### **Indirect effects**

The two theoretical products are oxidising agents and reactive. In case of thermal decomposition steam and oxygen will be released as decomposition products. The release of oxygen may support combustion.

Also, contact with impurities, decomposition catalysts, metallic salts, alkalis, reducing agents may lead to self-accelerated, exothermic decomposition and the formation of oxygen.

In case of decomposition of the products in confined spaces and pipers, there is a risk of overpressure and burst.

#### **First aid measures**

##### **Ø General advice**

Move out of dangerous area.

Take care of your own personal safety.

Take off immediately all contaminated clothing.

##### **Ø Inhalation**

Take affected persons out into the fresh air.

Possible discomfort: Irritates skin and mucous linings of the eyes and respiratory tract and cough.

If breathing difficulties occur (e.g. severe continual coughing): Keep patient half sitting with upper body raised; keep warm and in a quiet place; call a physician immediately.

##### **Ø Skin contact**

After contact with skin, wash immediately with plenty of water.

Consult a physician.

Take off immediately all contaminated clothing.

Immediately rinse contaminated or saturated clothing with water.

##### **Ø Eye contact**

With eye held open, thoroughly rinse immediately with plenty of water for at least 10 minutes.

Protect unharmed eye.

Continue rinsing process with eye rinsing solution.

Call ambulance (caustic burn of the eyes)

Immediate further treatment in ophthalmic hospital/ophthalmologist.

Continue rinsing eye until arrival at ophthalmic hospital.

##### **Ø Ingestion**

Do not induce vomiting.

Danger of penetration of the lungs (danger to breathing) when swallowed or vomited, due to gas evolution and foam formation.

Only when patient fully conscious: have the mouth rinsed with water; have the patient drink plenty of water in small sips; keep patient warm and at rest.

Notify ambulance immediately (key word: acid burn).

##### **Ø Notes to physician**

Therapy as for chemical burn.

#### **Following inhalation:**

Formation of a toxic lung oedema is possible if product continues to be inhaled despite acute irritative effect (e.g. if it is not possible to leave the danger area).

Prophylaxis of a toxic lung oedema with inhalative steroids (dosing spray, e.g. auxilosone).

#### **If substance has been swallowed:**

Aspiration hazard.

Risk of gaseous embolisms.

In case of excessive strain on the stomach due to gas evolution, insert siphon tube.

Early endoscopy in order to assess mucosa lesions in the oesophagus and stomach which may appear.

If necessary, suck away leftover substance.

Do not administer activated charcoal, since risk of release of large amounts of gas from hydrogen peroxide.

#### **Emergency measures to protect the environment**

Observe regulations on prevention of water pollution (collect, dam up, cover up).

Do not allow to run into water channels, surface water or into the ground.

##### **Ø Methods for cleaning up**

Clean contaminated surface thoroughly; recommended cleaning agent is water.

In case of small spills, dilute product with lots of water and rinse away or absorb product with liquid-binding material, e.g. chemisorption, diatomaceous earth, universal binder. Do not use textiles, saw dust, combustible substances. After binding, pick up mechanically and collect in suitable containers. Dispose of absorbed material in accordance with the regulations.

##### **Ø Additional advice**

Make safe or remove all sources of ignition.

Isolate defective containers immediately, if possible and safe to do.

Shut off leak, if possible and safe to do.

Place defective containers in waste receptacle (waste packaging receptacle) made of plastic (not metal).

Do not seal defective containers or waste receptacles airtight (danger of bursting due to product decomposition).

Product taken out should not be returned into container.

Never return spilled product into its original container for re-use (risk of decomposition).

### 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

Keep only in the original packaging tightly closed in a cool and well-ventilated place. Keep products away from direct sunlight, source of heat and ignition.

The shelf life of the biocidal product is 6 months.

The products must be stored at temperatures below +30°C.

## 6. Other information

Reference values of peracetic acid and hydrogen peroxide used for the risk assessment :

**PAA** : AECinhal = 0.5 mg/m<sup>3</sup>

**HP** : AECinhal = 1.25 mg/m<sup>3</sup>