

EN

*ANNEX*

**SUMMARY OF PRODUCT CHARACTERISTICS FOR A BIOCIDAL PRODUCT**

CLARMARIN® 350-EU-en

**Product type(s)**

PT02: Disinfectants and algaecides not intended for direct application to humans or animals

PT04: Food and feed area

**Authorisation number:** 1-3

**R4BP asset number:** EU-0028964-0005

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## 1. ADMINISTRATIVE INFORMATION

### 1.1. Trade name(s) of the product

Trade name(s)	CLARMARIN® 350 Wapo 35 Biozid 580 Wasseraufbereitungsmittel Biozid 5 Calgonit sporexalin Coolcid 5 Ferrocid 8590 Hollu LG DES 851 Hydrokwix 35 Kurita G-6250 Neudod M-B 35 Optidos W 35 Trdes Wapo 35 Waterdos RST 08 WEICOLUB®-DES WEICOPER®-O WP 35 OXY-DES Brennspec HP 35 BEIBLEACH WP 35 Waperox 35 SANITER LP OXY 50 OXY 50 PLUS STERIL 130 OXY 50 DM PEROXISOL DEWA-OX PEROGENO 130 EUROXY 50 AG SUPER EUROGENO OXICLEAN 2510/A OXICLEAN 3000/A AGRISAN 40 OXICLEAN 10 ENERSAN 2510A ANTIFERMENTATIVO K ANTIFERMENTATIVO K 100 ACQUA SBIANCANTE K OSSIDANTE ATTIVO UNYRAIN LAUNDRY 05 SYSTEMIC PROFESSIONAL M4 DES LAUNDRY 05 D RAPIDES OXY DES-H 35 SYSTEM PROTEX 4 SCHWEGO® fix W 8112 ECSO 8670 CARELA AKTIVATOR Komponente 2 CARELA CARBOCLEAN
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	CARELA HYDRODES CARELA PEROXSIL GENO-perox GENO-perox Spray SANOLIFE HO E-FLOW DETERGENTE SP01 CANDOR STERIL B OXY 70 DM BLUOXIRAPID ALFA-O-DUE BAR-O-DUE OXY ONE OXI 50 DM Idroxan WT Waterdos LST 08 BÚFA-Oxy WS O 33
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## 1.2. Authorisation holder

Name and address of the authorisation holder	Name	Evonik Operations GmbH
	Address	Rellinghauser Straße 1-11 45128 Essen Germany
Authorisation number	1-3	
<i>R4BP asset number</i>	EU-0028964-0005	
Date of the authorisation	08/11/2023	
Expiry date of the authorisation	31/10/2033	

## 1.3. Manufacturer(s) of the product

Name of manufacturer	Evonik Antwerpen NV
Address of manufacturer	Tijsmanstunnel West 2040 Antwerpen Belgium
Location of manufacturing sites	Evonik Antwerpen NV Tijsmanstunnel West 2040 Antwerpen Belgium

Name of manufacturer	Evonik Operations GmbH
Address of manufacturer	Rellinghauser Straße 1-11 45128 Essen Germany
Location of manufacturing sites	Evonik Operations GmbH Untere Kanalstr. 3 79618 Rheinfelden Germany

Name of manufacturer	Evonik Peroxid GmbH
Address of manufacturer	Industriestraße 1 9721 Weißenstein Austria
Location of manufacturing sites	Evonik Peroxid GmbH Industriestraße 1 9721 Weißenstein Austria

Name of manufacturer	Evonik Peroxide Netherlands BV
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Address of manufacturer	Hettenheuvelweg 37 /39 1101 BM Amsterdam Netherlands (the)
Location of manufacturing sites	Evonik Peroxide Netherlands BV  Oosterhorn 14 9936 HD Farmsum Netherlands (the)

Name of manufacturer	Brenntag Schweizerhall AG
Address of manufacturer	Elsässerstrasse 231 4013 Basel Switzerland
Location of manufacturing sites	Brenntag Schweizerhall AG  Route Industrielle 10 1580 Avenches Switzerland  Brenntag Schweizerhall AG  C/O Infrapark , Baselland, Rothausstrasse 61 4132 MuttENZ Switzerland

Name of manufacturer	Brenntag Nordic A/S
Address of manufacturer	Borupvang 5B DK-2750 Ballerup Denmark
Location of manufacturing sites	Brenntag Nordic A/S  Strandgade 35 7100 Vejle Denmark

Name of manufacturer	Brenntag GmbH
Address of manufacturer	Messeallee 11 45131 Essen Germany
Location of manufacturing sites	Brenntag GmbH  Am Röhrenwerk 46 47259 Duisburg Germany  Brenntag GmbH  Boschstraße 3 08371 Glauchau Germany  Brenntag GmbH  Hannoversche Str. 40 21079 Hamburg Germany  Brenntag GmbH  Dieselstraße 5 74076 Heilbron Germany  Brenntag GmbH  Merkurstraße 47 67663 Kaiserslautern Germany  Brenntag GmbH  Am Fieseler Werk 9 34253 Lohfelden Germany

Name of manufacturer	Brenntag CEE GmbH
Address of manufacturer	Linke Wienzeile 152 1060 Wien Austria
Location of manufacturing sites	Brenntag CEE GmbH

	<p>Bahnstraße 13 2353 Guntramsdorf Austria</p> <p>Brenntag CEE GmbH</p> <p>Fabrikstraße 4-6 8111 Judendorf Austria</p> <p>Brenntag CEE GmbH</p> <p>Rubensstraße 48 4050 Traun Austria</p>
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Name of manufacturer	Brenntag Slovakia s. r. o.
Address of manufacturer	Glejovka 902 03 Pezinok Slovakia
Location of manufacturing sites	<p>Brenntag Slovakia s. r. o.</p> <p>Glejovka 15 902 03 Pezinok Slovakia</p> <p>Brenntag Slovakia s. r. o.</p> <p>Príboj 558 976 13 Slovenská Ľupča Slovakia</p> <p>Brenntag Slovakia s. r. o.</p> <p>Južná Trieda 72 042 85 Košice Slovakia</p>

Name of manufacturer	Brenntag S.p.A.
Address of manufacturer	Via Cusago, 150/4 20153 Milano Italy
Location of manufacturing sites	<p>Brenntag S.p.A.</p> <p>Via San Carlo Borromeo 24040 Levate Italy</p> <p>Brenntag S.p.A.</p> <p>Via Galliera 6/2 40010 Bentivoglio Italy</p> <p>Brenntag S.p.A.</p> <p>Via del Cimitero 6 80030 Castello di Cisterna Italy</p> <p>Brenntag S.p.A.</p> <p>Strada Provinciale di Bonifica 34-36 65010 Villanova di Cepagatti Italy</p> <p>Brenntag S.p.A.</p> <p>Via Provinciale per Bitetto 70027 Palo del Colle Italy</p> <p>Brenntag S.p.A.</p> <p>Via Paduni 03012 Anagni Italy</p>

Name of manufacturer	Brenntag Polska Sp. z o.o.
Address of manufacturer	Józefa Bema 21 47-224 Kędzierzyn-Koźle Poland
Location of manufacturing sites	<p>Brenntag Polska Sp. z o.o.</p> <p>Józefa Bema 21 47-224 Kędzierzyn-Koźle Poland</p>

	Brenntag Polska Sp. z o.o. Kwasowa 5 95-100 Zgierz Poland Brenntag Polska Sp. z o.o. Przemysłowa 2 62-080 Jankowice Poland Brenntag Polska Sp. z o.o. Towarowa 9 05-530 Góra Kalwaria Poland
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Name of manufacturer	Brenntag Lietuva UAB
Address of manufacturer	Palemono g. 171D 52107 Kaunas Lithuania
Location of manufacturing sites	Brenntag Lietuva UAB Palemono g. 171D 52107 Kaunas Lithuania

Name of manufacturer	Brenntag Hungária Kft.
Address of manufacturer	Bányalég u. 45 1225 Budapest Hungary
Location of manufacturing sites	Brenntag Hungária Kft. Bányalég u. 45 1225 Budapest Hungary

Name of manufacturer	S.C. Brenntag S.R.L.
Address of manufacturer	Garii Street 1 077040 Chiajna Romania
Location of manufacturing sites	S.C. Brenntag S.R.L. Garii Street 1 077040 Chiajna Romania

Name of manufacturer	Brenntag Hrvatska d.o.o.
Address of manufacturer	Radnička cesta 173p 10000 Zagreb Croatia
Location of manufacturing sites	Brenntag Hrvatska d.o.o. Radnička cesta 173p 10000 Zagreb Croatia

Name of manufacturer	Brenntag Bulgaria EOOD
Address of manufacturer	j.k. Drujba 2, ul. Obikolna 21, et. 1 1582 Sofia Bulgaria
Location of manufacturing sites	Brenntag Bulgaria EOOD j.k. Drujba 2, ul. Obikolna 21, et. 1 1582 Sofia Bulgaria

Name of manufacturer	OQEMA S.P.A.
Address of manufacturer	Via Roggia Bartolomea 7 20090 Assago Italy
Location of manufacturing sites	OQEMA S.P.A. VIA TORTONA 73 27055 Rivanazzano Italy

Name of manufacturer	Häffner GmbH & Co. KG
Address of manufacturer	Friedrichstraße 3 71679 Asperg Germany
Location of manufacturing sites	Häffner GmbH & Co. KG Friedrichstraße 3 71679 Asperg Germany

Name of manufacturer	Evonik Peroxide Spain, S.L.U.
Address of manufacturer	C/ Afueras s/n. 50784 La Zaida Spain
Location of manufacturing sites	Evonik Peroxide Spain, S.L.U. C/ Afueras s/n. 50784 La Zaida Spain

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

Active substance	Hydrogen peroxide
Name of manufacturer	Evonik Antwerpen NV
Address of manufacturer	Tijsmanstunnel West 2040 Antwerpen Belgium
Location of manufacturing sites	Evonik Antwerpen NV Tijsmanstunnel West 2040 Antwerpen Belgium

Active substance	Hydrogen peroxide
Name of manufacturer	Evonik Operations GmbH
Address of manufacturer	Rellinghauser Straße 1-11 45128 Essen Germany
Location of manufacturing sites	Evonik Operations GmbH Untere Kanalstr. 3 79618 Rheinfelden Germany

Active substance	Hydrogen peroxide
Name of manufacturer	Evonik Peroxid GmbH
Address of manufacturer	Industriestraße 1 9721 Weißenstein Austria
Location of manufacturing sites	Evonik Peroxid GmbH Industriestraße 1 9721 Weißenstein Austria

Active substance	Hydrogen peroxide
Name of manufacturer	Evonik Peroxide Netherlands BV
Address of manufacturer	Hettenheuwelweg 37 /39 1101 BM Amsterdam Netherlands (the)
Location of manufacturing sites	Evonik Peroxide Netherlands BV Oosterhorn 14 9936 HD Farmsum Netherlands (the)

Active substance	Hydrogen peroxide
Name of manufacturer	Evonik Peroxide Spain, S.L.U.



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Address of manufacturer	C/ Afueras s/n. 50784 La Zaida Spain
Location of manufacturing sites	Evonik Peroxide Spain, S.L.U. C/ Afueras s/n. 50784 La Zaida Spain

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## 2. PRODUCT COMPOSITION AND FORMULATION

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

Common name	IUPAC name	Function	CAS number	EC number	Content (%)
Hydrogen peroxide		active substance	7722-84-1	231-765-0	35

### 2.2. Type(s) of formulation

SL Soluble concentrate

### 3. HAZARD AND PRECAUTIONARY STATEMENTS

<p>Hazard statements</p>	<p>H302: Harmful if swallowed.</p> <p>H315: Causes skin irritation.</p> <p>H318: Causes serious eye damage.</p> <p>H335: May cause respiratory irritation.</p> <p>H412: Harmful to aquatic life with long lasting effects.</p> <p>H272: May intensify fire; oxidiser.</p>
<p>Precautionary statements</p>	<p>P261: Avoid breathing vapours.</p> <p>P264: Wash hands thoroughly after handling.</p> <p>P270: Do not eat, drink or smoke when using this product.</p> <p>P271: Use only outdoors or in a well-ventilated area.</p> <p>P273: Avoid release to the environment.</p> <p>P280: Wear protective clothing / eye protection / face protection.</p> <p>P301+P312: IF SWALLOWED: Call a POISON CENTER / doctor / physician if you feel unwell.</p> <p>P330: Rinse mouth.</p> <p>P302+P352: IF ON SKIN: Wash with plenty of water/ soap.</p> <p>P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P312: Call a POISON CENTER/doctor/physician if you feel unwell.</p> <p>P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P310: Immediately call a POISON CENTER / doctor.</p> <p>P332+P313: If skin irritation occurs: Get medical advice.</p> <p>P403+P233: Store in a well-ventilated place. Keep container tightly closed.</p> <p>P405: Store locked up.</p> <p>P501: Dispose of contents to / in accordance with local requirements.</p> <p>P501: Dispose of container to / in accordance with local requirements.</p>

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P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P220: Keep away from clothing or other combustible materials.

P370+P378: In case of fire: Use water to extinguish.

## 4. AUTHORISED USE(S)

### 4.1. Use description

**Table 1. Laundry disinfection in closed washing machines by dosing**

Product type	PT02: Disinfectants and algaecides not intended for direct application to humans or animals
Where relevant, an exact description of the authorised use	-
Target organism(s) (including development stage)	Common name: bacteria Development stage: -  Common name: yeasts Development stage: -  Common name: viruses Development stage: -  Common name: fungi Development stage: -
Field(s) of use	indoor use  Laundry disinfection in washing machines.
Application method(s)	Method: Loading (dosing)  Detailed description: The product is automatically dosed into the closed washing machine during the washing process (main wash).
Application rate(s) and frequency	Application Rate: 0,019 – 0,029% (w/w) hydrogen peroxide.  Dilution (%): The biocidal products are diluted accordingly in order to achieve an in-use concentration in the range of 0,019 – 0,029% (w/w). For example, in the case of 35% (w/w) hydrogen peroxide product: 0,5 ml or 0,75 ml concentrate add water up to 1 litre to achieve 0,019% (w/w) or 0,029% (w/w). For products with different concentrations of hydrogen peroxide the values have to be adjusted accordingly.  Number and timing of application: Frequency: Daily / if required Bacteria, yeasts, fungi: In use concentration 0,019% (w/w) hydrogen peroxide in the wash solution. Alkaline buffering agent: 0,6 ml/l BEIPUR ANP. Contact time: 10 minutes Temperature: 70°C Viruses: In use concentration 0,029% (w/w) hydrogen peroxide in the wash solution. Alkaline buffering agent: 0,6 ml/l BEIPUR ANP Contact time: 10 minutes Temperature: 80°C Cloth: liquid ratio = 1:4
Category(ies) of users	professional
Pack sizes and packaging material	HDPE bottle 1, 5 litres HDPE jerry can 10, 20, 30, 60 litres HDPE drum 200 litres HDPE container 1000 litres

**4.1.1. Use-specific instructions for use**

The product and alkaline buffering agent (BEIPUR ANP) are automatically dosed into the closed washing machine during the washing process. The dosing of both components, i.e. the biocidal product and the alkaline buffering agent BEIPUR ANP, is realised via two separate pipes and dosing stations. Biocidal product and alkaline buffering agent should not be mixed prior the dosing into the washing machine. Treatment Interval - daily / if required (0,5 hours / day).

**4.1.2. Use-specific risk mitigation measures**

Wear chemical resistant goggles consistent with European Standard EN 16321 or equivalent, protective clothing chemically resistant to the biocidal product, chemical resistant gloves classified under the European Standard EN 374 or equivalent, face shield and RPE (APF = 10 ) during mixing and loading. Glove and coverall material to be specified by the authorisation holder within the product information. See section 6 for the full titles of the EN standards.

This is without prejudice to the application of Council Directive 98/24/EC and other Union legislation in the area of health and safety at work. See section 6 for the full reference to Council Directive 98/24/EC .

Technical RMM: Local exhaust ventilation (50 %) and good standard of general ventilation (3 ACH). Observe label instructions.

**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**

No use specific 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**

No use specific 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**

No use specific instructions of storage and shelf-life of the product under normal conditions of storage. See general directions for use.

**4.2. Use description**

**Table 2. Disinfection of distribution system for drinking water by cleaning in place (CIP)**

Product type	PT04: Food and feed area
Where relevant, an exact description of the authorised use	-
Target organism(s) (including development stage)	Common name: bacteria Development stage: -  Common name: yeasts Development stage: -  Common name: fungi Development stage: -
Field(s) of use	indoor use  Disinfection of distributing and storing installations for drinking water.
Application method(s)	Method: CIP (Cleaning in place) in closed systems

	Detailed description: Disinfecting the interior surfaces of closed systems by CIP
Application rate(s) and frequency	<p>Application Rate: 4,7 % (w/w ) hydrogen peroxide</p> <p>Dilution (%): For disinfection of bacteria, yeasts and fungi the product should be diluted to 4,7% (w/w) hydrogen peroxide. For example, in the case of a product containing 35% (w/w) hydrogen peroxide: add 114 ml product to 819 ml water to achieve a dilution of 4,7% (w/w) hydrogen peroxide. For products with different concentrations of hydrogen peroxide the values have to be adjusted accordingly.</p> <p>Number and timing of application:  Contact time: at least 3 hours  Frequency: Daily / if required  Temperature: room temperature</p>
Category(ies) of users	professional
Pack sizes and packaging material	HDPE bottle 1, 5 litres HDPE jerry can 10, 20, 30, 60 litres HDPE drum 200 litres HDPE container 1000 litres HDPE ISO tank 20m <sup>3</sup>

#### 4.2.1. Use-specific instructions for use

CIP (Cleaning in place): Clean prior to disinfection. Circulate the diluted product through the system under conditions of increased turbulence and flow velocity. After 3 hours contact time, pipelines and tanks are rinsed with water before refilled with drinking water. For disinfection of bacteria, yeasts and fungi the product should be diluted to 4,7% (w/w) hydrogen peroxide.

For example, for a product containing 35% (w/w) hydrogen peroxide: add 114 ml product to 819 ml water to achieve a dilution of 4,7% (w/w) hydrogen peroxide. For products with different concentrations of hydrogen peroxide the values have to be adjusted accordingly.

#### 4.2.2. Use-specific risk mitigation measures

Wear chemical resistant goggles consistent with European Standard EN 16321 or equivalent, protective clothing chemically resistant to the biocidal product, chemical resistant gloves classified under the European Standard EN 374 or equivalent, face shield and RPE (APF = 10) during mixing and loading. See section 6 for the full titles of the EN standards.

Glove and coverall material to be specified by the authorisation holder within the product information.

This is without prejudice to the application of Council Directive 98/24/EC and other Union legislation in the area of health and safety at work. See section 6 for the full reference to Council Directive 98/24/EC.

Technical RMM: Local exhaust ventilation (50 %) and good standard of general ventilation (3 ACH). Observe label instructions.

#### 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

No use specific 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

No use specific 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

No use specific instructions of storage and shelf-life of the product under normal conditions of storage. See general directions for use.

### 4.3. Use description

**Table 3. Disinfection of non-porous hard surfaces and equipment by immersion**

Product type	PT04: Food and feed area
Where relevant, an exact description of the authorised use	-
Target organism(s) (including development stage)	Common name: bacteria Development stage: -  Common name: yeasts Development stage: -  Common name: fungi Development stage: -
Field(s) of use	indoor use  Equipment in both food and drink industries, large scale catering kitchens and large scale canteens.
Application method(s)	Method: Open system: immersion  Detailed description: Manual immersion of equipment in closed baths. Automated immersion of equipment in closed baths.
Application rate(s) and frequency	Application Rate: 8,1% (w/w) hydrogen peroxide.  Dilution (%): For disinfection of bacteria, yeasts and fungi the product should be diluted to 8,1% (w/w) hydrogen peroxide. For example, for a product containing 35% (w/w) hydrogen peroxide: add 200 ml product to 738 ml water to achieve a dilution of 8,1% (w/w) hydrogen peroxide. For products with different concentrations of hydrogen peroxide the values have to be adjusted accordingly.  Number and timing of application: Contact time: 60 minutes Frequency: Daily / if required Temperature: room temperature
Category(ies) of users	professional
Pack sizes and packaging material	HDPE bottle 1, 5 litres HDPE jerry can 10, 20, 30, 60 litres HDPE drum 200 litres HDPE container 1000 litres HDPE ISO tank 20m <sup>3</sup>

#### 4.3.1. Use-specific instructions for use

For disinfection of bacteria yeasts and fungi the product should be diluted to 8,1% (w/w) hydrogen peroxide. For example, for a product containing 35% (w/w) hydrogen peroxide: add 200 ml product to 738 ml water to achieve a dilution of 8,1% (w/w) hydrogen peroxide. For products with different concentrations of hydrogen peroxide the values have to be adjusted accordingly.

Immersion: Equipment in the food and feed industry is disinfected by immersion. Pre-clean the equipment. The disinfection solution should be diluted into vats (i.e. pouring or pumping the product into vats). The equipment to be disinfected is manually or automatically placed into these vats (closed baths) and taken out after a contact time of not less than 60 minutes. After the disinfection procedure is completed, equipment is rinsed with water. The disinfection of the immersion/dipping bath should be replaced after each disinfection cycle.



### 4.3.2. Use-specific risk mitigation measures

Wear chemical resistant goggles consistent with European Standard EN 16321 or equivalent, protective clothing chemically resistant to the biocidal product, chemical resistant gloves classified under the European Standard EN 374 or equivalent, face shield and RPE (APF = 10) during mixing and loading and application. Glove and coverall material to be specified by the authorisation holder within the product information. See section 6 for the full titles of the EN standards.

This is without prejudice to the application of Council Directive 98/24/EC and other Union legislation in the area of health and safety at work. See section 6 for the full reference to Council Directive 98/24/EC. No access to the room is permitted during disinfection without wearing adequate PPE and RPE as described above.

Technical RMM: Local exhaust ventilation (50 %) and good standard of general ventilation (3 ACH). Dipping bath has to be placed in a separate room. For use only in areas inaccessible to the general public. Professional users without PPE and RPE (APF=10) are not allowed to enter the disinfection room. Keep the bath closed during disinfection, only open to load and discharge.

Observe label instructions.

### 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

No use specific 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

No use specific 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

No use specific instructions of storage and shelf-life of the product under normal conditions of storage. See general directions for use.

## 4.4. Use description

**Table 4. Disinfection of surfaces by cleaning in place (CIP)**

Product type	PT04: Food and feed area
Where relevant, an exact description of the authorised use	-
Target organism(s) (including development stage)	Common name: bacteria Development stage: -  Common name: yeasts Development stage: -  Common name: fungi Development stage: -
Field(s) of use	indoor use  Disinfection of food contact inner surfaces of pipe work and tank systems in food and feed industry.
Application method(s)	Method: CIP in closed systems  Detailed description: Disinfecting the interior surfaces of closed systems by Cleaning In Place (CIP).
Application rate(s) and frequency	Application Rate: 4,7% (w/w) hydrogen peroxide.  Dilution (%): For disinfection of bacteria, yeasts and fungi the product should be diluted to 4,7% (w/w) hydrogen peroxide.

	<p>For example, for a product containing 35% (w/w) hydrogen peroxide: add 114 ml product to 819 ml water to achieve a dilution of 4,7% (w/w) hydrogen peroxide. For products with different concentrations of hydrogen peroxide the values have to be adjusted accordingly.</p> <p>Number and timing of application:  Contact time: at least 3 hours  Frequency: Daily / if required  Temperature: room temperature</p>
Category(ies) of users	professional
Pack sizes and packaging material	HDPE bottle 1, 5 litres HDPE jerry can 10, 20, 30, 60 litres HDPE drum 200 litres HDPE container 1000 litres HDPE ISO tank 20m <sup>3</sup>

#### 4.4.1. Use-specific instructions for use

Clean prior to disinfection. The inner surfaces of pipe work and tank systems are disinfected by CIP process. For disinfection of bacteria yeasts and fungi the product should be diluted to 4,7% (w/w) hydrogen peroxide. For example, for a product containing 35% (w/w) hydrogen peroxide: add 114 ml product to 819 ml water to achieve a dilution of 4,7% (w/w) hydrogen peroxide. For products with different concentrations of hydrogen peroxide the values have to be adjusted accordingly.

The process is carried out by circulating the disinfection solution through the system under conditions of increased turbulence and flow velocity. The application is automated and a closed process. After 3 hours contact time, pipelines and tanks are rinsed with water under closed system conditions as well.

#### 4.4.2. Use-specific risk mitigation measures

Wear chemical resistant goggles consistent with European Standard EN 16321 or equivalent, protective clothing chemically resistant to the biocidal product, chemical resistant gloves classified under the European Standard EN 374 or equivalent, face shield and RPE (APF =10) during mixing and loading. See section 6 for the full titles of the EN standards.

Glove and coverall material to be specified by the authorisation holder within the product information.

This is without prejudice to the application of Council Directive 98/24/EC and other Union legislation in the area of health and safety at work. See section 6 for the full reference to Council Directive 98/24/EC.

Technical RMM: Local exhaust ventilation (50 %) and good standard of general ventilation (3 ACH). Observe label instructions.

#### 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

No use specific 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

No use specific 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

No use specific instructions of storage and shelf-life of the product under normal conditions of storage. See general directions for use.

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## 5. GENERAL DIRECTIONS FOR USE<sup>1</sup>

### 5.1. Instructions for use

See use specific instructions for each use.

### 5.2. Risk mitigation measures

See use specific risk mitigation measures for each use.

Observe label instructions.

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

#### First aid instructions

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. Information to Healthcare personnel/ doctor: Initiate life support measures if needed, thereafter call a POISON CENTRE.

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.

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.

#### Accidental release measures

Large spillage: Collect product in suitable containers (for example made of plastic) using appropriate equipment (for example liquid pump) for disposal. Never return spills in original containers for re-use. Keep away from flammable and incompatible substances. Rinse away any residue with plenty of water. Dispose of absorbed material in accordance with the applicable environmental regulations.

Small spillage: Dilute product with lots of water and rinse away or absorb with liquid-binding material (for example diatomaceous earth or universal binder). Pick up mechanically and collect in suitable containers. Clean contaminated surface thoroughly. Pack and label wastes like the product. Do not detach label from the delivery containers prior to disposal.

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

At the end of the treatment, dispose of unused product and the packaging in accordance with local requirements. Used product can be flushed to municipal sewer depending on local requirements.

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

#### Advice on protection against fire and explosion

Store away from direct sunlight and heat sources.

Store away from sources of ignition - No smoking.

Store away from flammable substances.

Store away from incompatible substances.

#### Storage

Temperature requirement- during storage maximum 40 °C and protect from frost.

Store in clean, dry and well- ventilated places.

Transport and store container in upright position only.

Always close container tightly after removal of product.

Avoid leakage and residues of the product on the containers.

#### Advice on common storage

Do not store together with alkalis, reductants, metallic salts (risk of decomposition).

Do not store together with organic solvents (risk of explosion).

#### Shelf-life:

**24 months**

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<sup>1</sup>Instructions for use, risk mitigation measures and other directions for use under this section are valid for any authorised uses.

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## **6. OTHER INFORMATION**

The full titles of the EN standards referenced in the “Use-specific mitigation measures” sections are:

EN 16321 - Eye and face protection for occupational users

EN 374 – Protective gloves against chemicals and micro-organisms

The Council Directive referenced in the “Use-specific mitigation measures” sections is: Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work (fourteenth individual Directive within the meaning of Article 16(1) of Directive 89/391/EEC) (OJ L 131, 5.5.1998[RMJ1] , p.11).