

EN

ANNEX

SUMMARY OF PRODUCT CHARACTERISTICS FOR A BIOCIDAL PRODUCT

OXTERIL® 350 BATH-EU-en

Product type(s)

PT04: Food and feed area

Authorisation number: 1-2

R4BP asset number: EU-0028964-0003

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1. ADMINISTRATIVE INFORMATION

1.1. Trade name(s) of the product

Trade name(s)	OXTERIL® 350 BATH DES-H2O2 35
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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		1-2
<i>R4BP asset number</i>		EU-0028964-0003
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
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)

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
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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 Bahnstraße 13 2353 Guntramsdorf Austria Brenntag CEE GmbH Fabrikstraße 4-6 8111 Judendorf Austria Brenntag CEE GmbH Rubensstraße 48 4050 Traun Austria

Name of manufacturer	Brenntag Slovakia s. r. o.
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Address of manufacturer	Glejovka 902 03 Pezinok Slovakia
Location of manufacturing sites	Brenntag Slovakia s. r. o. Glejovka 15 902 03 Pezinok Slovakia Brenntag Slovakia s. r. o. Príboj 558 976 13 Slovenská Ľupča Slovakia Brenntag Slovakia s. r. o. Južná Trieda 72 042 85 Košice Slovakia

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

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

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. Družba 2, ul. Obikolna 21, et. 1 1582 Sofia Bulgaria
Location of manufacturing sites	Brenntag Bulgaria EOOD j.k. Družba 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	Breustedt Chemie BV
Address of manufacturer	IJsseldijk 28 7325 WZ Apeldoorn Netherlands (the)
Location of manufacturing sites	Breustedt Chemie BV IJsseldijk 28 7325 WZ Apeldoorn Netherlands (the)

Name of manufacturer	BEAUSEIGNEUR SAS
Address of manufacturer	6, Rue André Viellard 90140 Froidefontaine France

Location of manufacturing sites	BEAUSEIGNEUR SAS 6, Rue André Viellard 90140 Froidefontaine France
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Name of manufacturer	Staub & Co. - Silbermann GmbH
Address of manufacturer	Ostendstraße 124 90482 Nürnberg Germany
Location of manufacturing sites	Staub & Co. - Silbermann GmbH Industriestraße 3 6456 Gablingen Germany

Name of manufacturer	Möller GmbH & Co. KG
Address of manufacturer	Bürgerkamp 1 48565 Steinfurt Germany
Location of manufacturing sites	Möller GmbH & Co. KG Bürgerkamp 1 48565 48565 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

Name of manufacturer	Gaches Chimie
Address of manufacturer	17 avenue de la Gare 31750 Escalquens France
Location of manufacturing sites	Gaches Chimie 17 avenue de la Gare 31750 Escalquens France Gaches Chimie 2 Chemin de la Scierie 64150 Os-Marsillon France

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	Hettenheuvelweg 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.
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

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

Hazard statements	<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>
Precautionary statements	<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 gloves / 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>

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. Aseptic packaging in food and feed industries

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: Bacterial spores Development stage: Bacterial spores
Field(s) of use	indoor use Disinfection of food and feed packaging material in closed aseptic packaging systems by dipping, spraying or nebulising
Application method(s)	Method: Dipping, nebulising and spraying Detailed description: Automated dipping in closed systems. Automated nebulising and spraying in closed systems.
Application rate(s) and frequency	Application Rate: In-use concentration: 35% (w/w) hydrogen peroxide. Dilution (%): For disinfection of bacteria, yeasts and bacterial spores, the product should be diluted to 35% (w/w) hydrogen peroxide. For example, for a product containing 49,9% (w/w) hydrogen peroxide; add 700 ml product to 357 ml water to achieve a dilution of 35% (w/w) hydrogen peroxide. For products with different concentrations of hydrogen peroxide the values have to be adjusted accordingly. Number and timing of application: Automated chemo-thermal disinfection processes. In-use concentration: 35% (w/w) hydrogen peroxide Spraying or nebulizing: Temperature: $\geq 100^{\circ}\text{C}$ Contact time: at least 5,5 seconds Dipping: Temperature: $\geq 80^{\circ}\text{C}$ Contact time: at least 2,5 seconds
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 ³

4.1.1. Use-specific instructions for use

The aseptic filling systems are based on the principle of aseptically forming a tube from a sterilised sheet of package material, which is continuously filled with commercially sterile liquid food product and subsequently

transversally sealed to form pouches, which in turn are folded into the final package shape. The packaging material are delivered to the aseptic filling machine either in the form of (sheet) reels or in the form of pre-formed packs, tubs and bottles. The packaging material in the form of (sheet) reels passes through a deep bath filled with 35 % (w/w) hydrogen peroxide by dipping. The pre-formed packs, tubs and bottles are sprayed or fogged with 35% (w/w) hydrogen peroxide stepwise via a nozzle. After that, several stages follow to evaporate any excess hydrogen peroxide with sterile hot air.

Depending on the size of the receptacle, an amount of 0,1 - 1 mL of 35 % (w/w) hydrogen peroxide is sprayed or nebulized gradually via a nozzle.

Temperature: $\geq 100^{\circ}\text{C}$

Contact time: at least 5,5 seconds

The packaging material in the form of (sheet) reels passes through a deep bath filled with 35 % (w/w) hydrogen peroxide by dipping.

Temperature: $\geq 80^{\circ}\text{C}$

Contact time: at least 2,5 seconds

For example, for a product containing 49,9% (w/w) hydrogen peroxide; add 700 ml product to 357 ml water to achieve a dilution of 35% (w/w) hydrogen peroxide.

The user shall always carry out a microbiological validation of the disinfection, after which a protocol for disinfection of this packaging / system can be made and used thereafter.

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 products, chemical resistant gloves classified under European Standard EN 374 or equivalent, face shield and RPE (APF = 10) when handling concentrated solutions during mixing and loading; chemical resistant gloves classified under European Standard EN 374 or equivalent, protective clothing chemically resistant to the biocidal products, and chemical resistant goggles consistent with European Standard EN 16321 or equivalent face shield during application. During maintenance work, wear chemical resistant gloves classified under EN 374 or equivalent, protective clothing chemically resistant to the biocidal products, chemical resistant goggles consistent with EN 16321 or equivalent face shield and RPE (APF=4) and spray water for approximately 10 seconds before opening the machine. The instructions for use of the re-filling station specify that the loading operations must take place in a cool and ventilated place. Gloves and coverall material to be specified by the authorisation holder within the product information. Observe label instructions. 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.

The instructions for use of the re-filling station specify that the loading operations must take place in a cool and ventilated place. 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
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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 Cleaning and disinfection of distributing and storing installations for drinking water
Application method(s)	Method: CIP (Cleaning in place) Detailed description: Disinfecting the interior surfaces of closed systems by 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. For example, in case of a 35%(w/w) hydrogen peroxide product: add 114 ml product to 819 ml water. For products with different concentrations of hydrogen peroxide the values have to be adjusted accordingly. Number and timing of application: Contact time: at least 3 hours 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 ³

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/face shield, protective clothing chemically resistant to the biocidal product, chemical resistant gloves classified under the European Standard EN 374 or equivalent and RPE (APF = 10) during mixing and loading. Technical RMM: Local exhaust ventilation (50 %) and good standard of general ventilation (3 ACH). Observe label instructions. Gloves 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.

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, in case of a 35%(w/w) hydrogen peroxide product: add 200 ml product to 738 ml water. For products with different concentrations of hydrogen peroxide the values have to be adjusted accordingly. Number and timing of application: Contact time: at least 60 min 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

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 at least 60 minutes. After the disinfection procedure is completed, equipment is rinsed with water. The disinfection solution in 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/face shield, protective clothing chemically resistant to the biocidal product, chemical resistant gloves classified under the European Standard EN 374 or equivalent and RPE (APF = 10) during mixing and loading and application. Gloves 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 of other worker 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: Cleaning in Place (CIP) 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. For example, in case of a 35%(w/w) hydrogen peroxide product: add 114 ml product to 819 ml water. For products with different concentrations of hydrogen peroxide the values have to be adjusted accordingly. Number and timing of application: Contact time: at least 3 hours 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 ³

4.4.1. Use-specific instructions for use

Clean prior to disinfection. 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. Gloves 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.

4.4.3. 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.

5. GENERAL DIRECTIONS FOR USE¹

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 (e.g. made of plastic) using appropriate equipment (e.g. 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 (e.g. 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

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

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).