

# Price list for bulk quantities

Price list valid from 01.11.2023

## MENNO Florades®

**VIRUCIDE, FUNGICID, BACTERICID**

**Disinfectant for floriculture, horticulture (Vegetable production) and agriculture.**

**For professional users only. FiBL Germany - Listed for organic farming.**

**Fungi (inclusive spore form):** Alternaria, Aspergillus, Botrytis, Cercospora, Chalara, Cladosporium, Colletotrichum, Cylindrocladium, Dactylium, Didymella, Erysiphe, Fusarium, Helminthosporium, Mucor, Ophistoma, Peronospora, Pythium, Phytophthora, Ramularia, Rhizoctonia, Rhizopus, Streptomyces, Taphrina, Thielaviopsis, Trichoderma, Verticillium etc.

**Bacteria:** Acidovorax, Agrobacterium, Clavibacter, Curtobacterium, Dickeya, Erwinia, Pectobacterium, Pseudomonas, Ralstonia, Xanthomonas etc.

**Virus and Viroids:** ArMV, BePMV, CarMoV, CGMMV, CMV, CyMV, MNSV, ORSV, PepMV, PFBV, PLCV, PLPV, PMMoV, PVX, PVY, RMV, TBRV, TMV, ToBRFV, ToMV, TSV, TSWV, ZymV, PSTVd, CSVd etc.

**Active ingredient:** 90 g/L Benzoic acid, 9 % w/w (water soluble concentrate)

**Application:** After the last use or before each reuse. After thorough mechanical cleaning.

- Maximal treatments: 1/ No direct treatment of the plants / for disinfection purpose.
- Technique: Watering of standing area and container /resp. flooding of sealed flat, non-profiled standing areas / resp. dipping of cutting tools / resp. coarse spray or foaming of hard surfaces like standing areas, containers, pots, trays, boxes, walls, machines, equipment etc.
- Expense amount of mixture: 0,8 Litre/m<sup>2</sup> (maximal amount) for floriculture, horticulture resp. agriculture.  
MENNO's recommendation of effort: Volume for standing area: ebb-and-flow benches (tiding installations) 0,2 L/m<sup>2</sup> / irrigation mats up to 0,8 L/m<sup>2</sup> / for potato warehouse area: boxes, equipment, machinery etc.: 0,4 - 0,8 L/m<sup>2</sup>
- Exposure time: 16 hours - 1 % resp. 4 hours - 2 % against phyto pathogen bacteria and fungi / 16 hours against virus and viroid's - 1 % against „simple inactivating pathogens“, 2 % against „reasonable inactivating pathogens“, 4 % against „serious inactivating pathogens“ / 3 minutes - 4 % for cutting tools. MENNO's recommendation of exposure time: On hard surfaces and on mats the reaction time is already complete after drying e.g. over night.
- **The exposure time is specific to the pathogen and could may be reduced / demand by the manufacturer.**
- The waiting time is covered by the application conditions and / or the vegetation period which remains between application and use (e.g., harvesting), or the setting of a waiting time in days is not required. Bees are not endangered due to the use of the product as defined by the authorization. The product is classified as not harmful to populations of relevant beneficial insects.

<b>Concentration for application and reaction time:</b> Cutting tools 4 % / 3 minutes	All other hard surfaces
Virus and viroid's (simple inactivating pathogens: ArMV, BePMV, CarMoV, CMV, CSVd, CyMV, PLCV, PSTVd, PLPV, TBRV, TSWV, RMV etc.)	1% / 16 h
Virus and viroid's (reasonable inactivating pathogens: MNSV, PepMV, PFBV, ZYMV etc.)	2% / 16 h
Virus and viroid's (serious inactivating pathogens: ToBRFV, TMV and ToMV)	4% / 16 h
Bacteria and fungi (in floriculture, horticulture and agriculture)	1% / 16h resp. 2% / 4h

**Application times may vary depending on the application - MENNO documentation upon demand:**

- **3 minutes** for cutting tools as dip against all viruses, bacteria and fungi (vegetative forms)
- **5 minutes** against bacteria as surfaces application even in the presence of peat pollution
- **10 minutes** for textiles / clothing against non-enveloped tobamoviruses (e.g. ToBRFV, CGMMV etc.)
- **60 minutes** with 4 % against non-enveloped viruses CGMMV or ToBRFV - (on smooth surfaces)
- **60 minutes** against fungi (spores) or from 4 hours otherwise up to 16 hours - depending on their spore forms - if required

<b>Packing:</b>	1x 1.000 l plastic-container	Price per litre	€ 11,62
	1x 200 l plastic-barrel (with a minimum delivery volume of 300 l)	Price per litre	€ 13,41
	1x 10 l plastic-canister	Price per litre	€ 15,10
	10x 1 l plastic-bottles (in card box)	Price per litre	€ 16,10

<b>pH-Indicator sticks for monitoring the dip:</b> plastic box / contents 100 sticks	Price per box	€ 15,50
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**Legal national registration requirements and legislation has to be considered before use.**

**MENNO CHEMIE-VERTRIEB GMBH**

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## MENNO<sup>®</sup> TER forte

ALGICID, FUNGICID, BACTERICID, LEVUROCID

Disinfectant for hard surfaces in the scope of professional use in agriculture on irrigation matting systems, plastic foils, glass, metal and concrete surfaces etc. For professional users only.

**Active Ingredient:** 325 g/l Didecyldimethylammoniumchloride

**Application:** Disinfectant for hard surfaces, treatment after intensive cleaning, preventively before next cultural period. Recommended technique as foam with MENNO<sup>®</sup> Foam Applicator, watering or coarse spray 0.3 l/m<sup>2</sup>.

Dilution rate in water: Algicide: 0.5 % - 0.5 l in 99.5 liter;

Bactericide/Fungicide: 1 % - 1 l in 99 liter;

**Note:** Do not spray on neighbouring plants, as damage is possible.

**But:** No gaseous phase harmful to plants occurs with this application.

<b>Packing:</b>	1x 1.000 l plastic-container	Price per litre	€ 8,78
	1x 200 l plastic-barrel (with a minimum delivery volume of 300 l)	Price per litre	€ 10,13
	1x 10 l plastic-canister	Price per litre	€ 11,50
	<b>Indicator paper roll to check the content of active ingredient in solution:</b>	Price per roll	€ 25,00

**Alkaline Detergent concentrates for professional use in crop production, vegetable and ornamental crops. Cleaning dirt load and residues from transport containers such as pots, trays, pallets, boxes, crates and areas such as irrigation mats, roller tables, greenhouses etc. Also, for use in crate washing machines.**

## MENNO<sup>®</sup> HORTISEPTCLEAN

**Application:** From 0.5% or up to 2%, i.e. add 0.5 or 2 l of product in 99.5 or 98 l of water, respectively, while stirring.

**Indication / de-foamed:** Apply depending on the pollution of the surface to be cleaned (plastic, wood, glass, concrete, metal etc.) in the aqueous application concentration preferably with up to 40°C warm water. Surface sufficiently wet, preferably applied with only short soak up period, without drying off and rinse with warm water and high pressure. Before treatment, test product tolerance / resistance of the material surface to be cleaned.

<b>Packing:</b>	1x 1.000 l IBC plastic-container	Price per litre	€ 5,66
	1x 200 l plastic-barrel (with a minimum delivery volume of 300 l)	Price per litre	€ 6,53
	1x 10 l plastic-canister	Price per litre	€ 7,45

## MENNO<sup>®</sup> HORTISEPTCLEAN Plus

**Application:** From 0.5% or up to 2%, i.e. add 0.5 or 2 l of product in 99.5 or 98 l of water, respectively, while stirring.

**Indication / strongly foaming:** Apply depending on the pollution of the surface to be cleaned (plastic, wood, glass, concrete, metal etc.) in the aqueous application concentration preferably with up to 40°C warm water. Surface sufficiently wet, preferably to be applied as foam only short soak up period for 1 to 5 minutes, without drying off and rinse with warm water and high pressure. Before treatment, test product tolerance / resistance of the material surface to be cleaned.

<b>Packing:</b>	1x 1.000 l IBC plastic-container	Price per litre	€ 6,12
	1x 200 l plastic-barrel (with a minimum delivery volume of 300 l)	Price per litre	€ 7,07
	1x 10 l plastic-canister	Price per litre	€ 8,00

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Detergent concentrates for professional use in crop production, vegetable and ornamental crops. Cleaning dirt load and residues from transport containers such as pots, trays, pallets, boxes, crates and areas such as irrigation mats, roller tables, greenhouses etc. Also, for use at crate washing machines.

## FADEX®-OHX

FiBL Germany - Listed for organic farming

**Application:** From 0.5% or up to 2%, i.e. add 0.5 or 2 l of product in 99.5 or 98 l of water, respectively, while stirring.

**Indication: Alkaline detergent concentrate / de-foamed.** Apply depending on the pollution of the surface to be cleaned (plastic, wood, glass, concrete, metal etc.) in the aqueous application concentration preferably with up to 40°C warm water. Surface sufficiently wet, preferably applied with only short soak up period for, without drying off and rinse with warm water and high pressure. Before treatment, test product tolerance / resistance of the material surface to be cleaned.

<b>Packing:</b>	1x 1.000 l IBC plastic-container	Price per litre	€ 6,51
	1x 200 l plastic-barrel (with a minimum delivery volume of 300 l)	Price per litre	€ 7,52
	1x 10 l Kunststoff-Kanister	Price per litre	€ 8,50

## FADEX®-OH

FiBL Germany - Listed for organic farming

**Application:** From 0.5% or up to 2%, i.e. add 0.5 or 2 l of product in 99.5 or 98 l of water, respectively, while stirring.

**Indication: alkaline detergent concentrate / strongly foaming:** Apply depending on the pollution of the surface to be cleaned (plastic, wood, glass, concrete, metal etc.) in the aqueous application concentration preferably with up to 40°C warm water. Surface sufficiently wet, preferably to be applied as foam only short soak up period for 1 to 5 minutes, without drying off and rinse with warm water and high pressure. Before treatment, test product tolerance / resistance of the material surface to be cleaned.

<b>Packing:</b>	1x 1.000 l IBC plastic-container	Price per litre	€ 6,90
	1x 200 l plastic-barrel (with a minimum delivery volume of 300 l)	Price per litre	€ 7,97
	1x 10 l Kunststoff-Kanister	Price per litre	€ 9,00

## FADEX® H+

FiBL Germany - Listed for organic farming

**Application:** From 0.5% or up to 2%, i.e. add 0.5 or 2 l of product in 99.5 or 98 l of water, respectively, while stirring.

**Indication: Acidic detergent concentrate / strongly foaming:** Apply depending on the pollution of the surface to be cleaned (plastic, wood, glass, concrete, metal etc.) in the aqueous application concentration preferably with up to 40°C warm water. Surface sufficiently wet, preferably to be applied as foam only short soak up period for 1 to 5 minutes, without drying off and rinse with warm water and high pressure. Before treatment, test product tolerance / resistance of the material surface to be cleaned.

<b>Packing:</b>	1x 1.000 l IBC plastic-container	Price per litre	€ 6,90
	1x 200 l plastic-barrel (with a minimum delivery volume of 300 l)	Price per litre	€ 7,97
	1x 10 l Kunststoff-Kanister	Price per litre	€ 9,00

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## A-QUASAN®

Disinfection on hard surfaces for spraying with low-pressure sprayers or as foam for hygiene in the food and feed sector (PT = product type 4).

For professional users only. FiBL Germany - Listed for organic farming

Active ingredient: 90,0 g/L Benzoic acid, 9 %, w/w (SL- Soluble concentrate).

The shelf life is 5 years.

Disinfection for protection against human pathogens for use in food manufacturing plants, beverage manufacturing plants, warehouses, cold stores and areas in greenhouses where food is processed. In greenhouses, use only in areas where food is processed: **Disinfection of non-porous surfaces** (e.g. work and storage surfaces, boxes, cartons, transport surfaces, tools, machines).

**Disinfection of equipment by soaking** (e.g. plates, cutlery, equipment, small machines, machine parts, boxes, cartons).

**Disinfection of internal surfaces without circulation** (e.g. pipes, tanks, fillers, mixers, other machines that come into contact with food) and

**Disinfection of surfaces in human drinking water systems** (e.g. pipes, tanks, fillers, mixers, other machines that come into contact with food). Closed system: Filling the system (e.g. pipes) with the product solution. Pipe systems are filled with the product solution for the recommended application time. After the recommended application time, the system is emptied and rinsed with tap water.

**General instructions for use:** Use only on clean non-porous surfaces. After the recommended exposure time has elapsed, the treated surfaces, equipment, treated pipes and machines must be rinsed with tap water before reuse. Treated surfaces and equipment must be dry before reuse. Use only in well ventilated areas. The product solution should be applied as often as needed. A maximum number of applications per day is limited by the exposure times recommended for the target organisms, but should be applied a maximum of once per day in human water systems and a maximum of once per week in veterinary water systems. Application volume 0.4 L/m<sup>2</sup> on surfaces.

Scope of application	Food sector (PT = product type 4)		
	Temperature (°C)	Concentration (%v/v)	Exposure time (min.)
Bacteria – Bactericid	10	2,5 / 2	15 / 30
Yeast - Levurocid	20	2,5 / 2 / 1,5	15 / 30 / 60
Fungi - Fungicid	20	6 / 5 / 4	15 / 30 / 60

If **only bacteria** are to be controlled, lower application concentrations and exposure times are sufficient:

At 10°C: 2.5%-5 min / 1.5%-30 min / 1%-60 min or

at 20°C: 2%-5 min / 1.5%-30 min / 1%-60 min.

<b>Packing:</b>	1x 1.000 l plastic-container	Price per litre	€ 9,83
	1x 200 l plastic-barrel (with a minimum delivery volume of 300 l)	Price per litre	€ 11,34
	1x 10 l plastic-canister	Price per litre	€ 12,80

Prices for products, application tools and foam application techniques, net cash and plus shipping costs.

In addition, our general terms and conditions of business and delivery apply. The court of jurisdiction is Norderstedt.

All prices plus VAT - All prices are subject to change without notice, errors excepted.

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