



VENNO® VET 1

is the disinfectant
for all kinds of animal houses
for the responsible user



The advantages of VENNO® VET 1 super

- Approved by the DVG (German Veterinary Society) registered in the DVG-list of disinfectants for animal husbandry as at 12-2019
- MENNO recommendation at 4°C: enveloped viruses 1,5%-30min. 1% - 60min. / 0,75% - 120min.
- MENNO recommendation at 10°C: enveloped viruses 0,75%-30min. unenveloped viruses 1%-120min.
- MENNO recommendation preventive disinfection: at 4°C: 1,5%-60min. at 10°C: 1%-120min. resp. at 20°C: 0,75%-30min.
- DVG registered for Veterinary practice and Shelters, as at 02-2018 Preventive disinfection, 1%-5min. or 0,5%-30min., specific disinfection against fungi 2,5%-30min.
- **Effective also at low temperatures, against african swine fever etc.**
- Active ingredients: Formic acid
- DLG quality mark: testing for the highest consistent quality



The advantages of VENNO® VET 1

- Approved by the DVG (German Veterinary Society) registered in the DVG-list of disinfectants for animal husbandry as at 12-2019
- MENNO recommendation at 4°C: enveloped viruses 1,5%-30min. 1% - 60min. / 0,75% - 120min.
- MENNO recommendation at 10°C: Virucid: enveloped v. 0,75%-30min. unenveloped virus. 1%-120min.
- MENNO recommendation preventive disinfection: at 4°C: 1,5%-60min. at 10°C: 1%-120min. resp. at 20°C: 0,75%-30min.
- Active ingredients: Formic acid
- „Environmentally beneficial, as well biodegradable (86 %) according OECD Guidelines 301 E
- **Effective also at low temperatures, against african swine fever etc.**
- DLG quality mark: testing for the highest consistent quality



Use disinfectants safely. Always read the label and product information before use.

MENNO CHEMIE-VERTRIEB GMBH

Langer Kamp 104 • D-22850 Norderstedt • Germany

T: + 4940-529 06 670 • F: +4940529 06 67 66 • info@menno.de • www.menno.de

The advantages of VENNO® VET 1

- Listed by the German Veterinary Society in the List of Disinfectants for Animal Husbandry, www.dvg.net (source)

Effectiveness at 20°C:

as at 09-2020
Virucid; unenveloped viruses 1 % -30 min.,
enveloped viruses 0,25 % - 30 min.;
Levurocid 4 % - 120 min.;
Bactericid: Specific dis.: 3,5 % - 120 min.;
Prophylactic disinf.: 0,5 %-120 min. / 0,75 %-60 min. / 1 %-30 min.;



Effectiveness at 10°C:

Virucid; unenveloped viruses 1%-120min./2%-60min./2,5%-30min.;
enveloped viruses 0,25% - 120min. / 0,5% - 60min. / 0,75 %-30 min.;
Levurocid 5 % - 120 min.; Spec. dis.: 5%-120 min.;
Prophylactic disinfection: 1 % - 120 min. / 1,5 % - 30 min.,

Effectiveness at 4°C:

Virucid; unenveloped viruses 3,5%-120min./4%-60min./4,5%-30min.;
enveloped viruses 0,75 % - 120 min. / 1 % - 60 min. / 1,5 % - 30 min.;
Prophylactic disinfection: 1,5 % - 60 min. / 2 % - 30 min.,

Effectiveness at (minus) -10°C:

Virucid; enveloped viruses 3%-120min./Application at -10°:
Addition to a submitted 25% ethylene glycol-water mixture

- Satisfies the requirements of the Friedrich-Loeffler-Institute concerning means and procedures for the execution of a disinfection prescribed in accordance with animal epidemics legislation

See also VENNO VET 1 super because it is identical.

- Effective against *Aujeszky's disease virus*

Test report Dr. W. Herbst, University of Hohenheim, 15.02.1990.
Result on germ carrier wood at 20°C: 0,5%-15min.

- Effective against the *equine herpes virus serotype 1*

Test report Prof. Dr. Strauch, University of Hohenheim, 29.03.1990. Result in suspension at 20°C: 0,5%-5min.

- Effective against *turkey rhinotracheitis virus (TRT virus) – Wilding Strain –*

Test report Prof. Dr. E. F. Kaleta – Institute for Poultry Disease, Justus Liebig University, Gießen, 27.04.1990. Result on germ carrier wood at 20°C: 0,5%-60min.

- Effective against *serpulina hyodysenteriae (diarrhoea)*

Test report Dr. Th. Blaha, Tierärztliche Hochschule Hannover, 27.12.1993. Result in suspension at 20°C: 1%-15min.

- Effective against *chlamydia*

Test report Prof. Dr. E. F. Kaleta, Institute for Poultry Disease, Justus Liebig University, Gießen, 17.04.1991. Result on germ carrier wood at 20°C: 0,1 % within 30 min. reaction time.

- Effective against *parvovirus*

Test report Prof. Dr. D. Strauch, Full Professor for Veterinary Medicine of the University of Hohenheim, Honorary Professor of the University of Stuttgart, Ostfildern, 27.04.1990. Result in suspension test without protein burden: at 1°C to 3°C with 1 % concentration within 30 min. reaction time.

- Effective against *salmonella typhimurium, streptococcus suis type 2, echerichia coli type 0149*

Test report lic. med. vet. Brigitta Svensmark & cand. med. vet. E. Okholm Nielsen, DANSKE SLAGTERIER-laboratoriet, Kjeilerup, 04-1991. Result on germ carrier wood at 20°C: 1%-120min.

- Effective against *PRRS, FMD (foot and mouth disease), ASP (African swine fever)*

Test report Dr. B. Haas Federal Research Centre for Virus Diseases of Animals, Tübingen, 23.01.1993. Result in suspension at 20°C: 1% within 15min.

General recommendation for VENNO VET 1 and VENNO VET 1 super: Use at a higher temperature reduces the required application concentration.

By heating the water and/or the environment, it is possible to reduce the exposure to users, environment and materials.

Note: Within the range of application of up to 1%, there is generally a high material compatibility of the materials usually used.

For applications above 1%, consultation with the manufacturer is recommended in case of doubt.

Due to the large number of different materials and components, particularly metals, we cannot make a generally binding statement on material compatibility.

We do not assume the application risk. We recommend that a sample surface be applied before the entire surface is treated with the disinfectant solution, otherwise the exclusion of liability applies.

- Investigation into the corrosion of metals

Report of Dr. W. Mick and Dr. H. Vogt NATEC-Institute, 28.11.89. Result in accordance with DIN 50905: Aluminium, copper and brass are below the selected test conditions and therefore non-corrosive. Raw steel and zinc were only mildly attacked by the test solution (1 and 3 %). Under practical conditions (e.g. cleaning of cages etc. in the field of intensive animal rearing) these corrosion rates can be classified as negligible.

The active substances of VENNO® VET 1 consisting of organic acids have proved to be advantageous for you and the environment:

- environmentally appropriate •

biodegradable according to OECD Guideline 301 E (86 %)

- Biodegradability

Test carried out by ÖKOLIMNA-Gesellschaft für Ökologie und Gewässerkunde mbH, Burgwedel, June 91

Test substance: VENNO® VET 1

Test concentration: 100 mg/l

Test procedure: Screening test acc. to OECD 301 E

Result: 86 % (after 28 days)

- Examination inhibition of bacterias activity

Test carried out by ÖKOLIMNA-Gesellschaft für Ökologie und Gewässerkunde mbH, Burgwedel, August 1991

Test substance: VENNO® VET 1

Test procedure: TTC-Test according DEV L 3

Result: G-value is declared as the smallest (povable) not anymore toxic dilution of the test substance. G-value 200 mg/l



On the proposal of the Commission and on the grounds of the existing test report, the German Agricultural Association herewith confers the above quality seal approved by the RAL Committee for Delivery Terms and Quality Protection of the German Standardization Organisation to:

Company: MENNO-CHEMIE-VERTRIEB GMBH, Norderstedt

for the following product:

Disinfectant for Veterinary hygiene

VENNO® VET 1

The advantages of VENNO® VET 1 super

- **Listed by the German Veterinary Society in the List of Disinfectants for Animal Husbandry, www.dvg.net (source)**

Effectiveness scope animal keeping at 20°C:

Virucid; Unenveloped viruses 1 % - 30 min.,
enveloped viruses 0,25 % - 30 min.,
Tuberculozid 5 % - 120 min.;
Levurocid 3 % - 120 min. / 4 % - 60 min.;
Bactericid: Specific disinf. 3,5 % - 120 min.;
Prophylactic disinfection 0,5 % - 120 min. / 0,75 % - 30 min.

Effectiveness at 10°C:

Virucid; unenveloped vir. 1%-120min./1,5%-60min/2%-30min.;
enveloped Viruses 0,25 % - 120 min. / 0,75 % - 30 min.;
Levurocid 4 % - 120 min.; Specific disinfection 4 % - 120 min.;
Prophylactic Disinfection 1 % - 120 min. / 1,5 % - 30 min.;

Effectiveness at 4°C:

Virucid; unenveloped viruses 3 % - 120 min. / 4 % - 30 min.;
enveloped Viruses 0,75% - 120min./1% - 60min./1,5% - 30min.;
Prophylactic Disinfection 1,5 % - 60 min. / 2 % - 30 min.;

Effectiveness at (minus) -10°C:

Virucid; enveloped viruses 3%-120min./Application at -10°:
Addition to a submitted 25% ethylene glycol-water mixture

Scope Veterinary practice and Shelters:

Preventive disinfect., without mechanic: 1%-5min./0,5%-30min.;
specific disinfection against fungi 2,5 % - 30 min., as at 09-2020



- **Satisfies the requirements of the Friedrich-Loeffler-Institute concerning means and procedures for the execution of a disinfection prescribed in accordance with animal epidemics legislation**

According to "3.2 Chemical disinfectants (commercial products), DVG list [...], effective commercial products can also be used for disinfection. [...] At temperatures below 10°C, either DVG-listed commercial products can be used, for which the DVG has attested effectiveness for the special areas of action and these low temperatures (e.g. 4°C) [...] At expected temperatures of ≤ 0°C in the range of the planned application, de-icing agents can only be used if these special combinations of de-icing agent and the respective disinfectant have been effectively tested and listed by the DVG". Version 03.02.2020

- **Effective also at low temperatures against CSF (classical swine fever) in manure and on germ carriers**

Test report Federal Research Centre for virus diseases, Isle Riems, Prof. Dr. Kaden, 07/98 – 02/99. Result: CSF-Virus on germ carrier wood: 1 % reaction time 15 minutes at +20 °C, + 10 °C, + 4°C and –10 °C. Undiluted manure: 0,5 % exposure time 24 hours at +20 °C, +10°C und +4 °C

- **Effective against MRSA (Methicillin resistant Staphylococcus aureus)**

Test report Dr. A. Yilmaz, Klinik für Vögel..., der Justus-Liebig Universität Giessen, 22.09.2008. Result at 20°C: 1%-5min. in suspension test resp. with 1%-30min. on germ carrier wood

- **Effective against classical bird flu (aviäre Influenza A Virus)**

Test report Prof. Dr. E. F. Kaleta, Dr. A. Yilmaz, Klinik für Vögel..., der Justus-Liebig Universität Giessen, 03.07.2003. Result on germ carrier wood: at 20°C with 1%-5min. resp. at 10°C with 1% -5min. resp. at 4°C with 1%-30 min. or 2%-10min.

- **Effektive against porcine Circovirus Typ 2 (PCV 2)**

Test report Dr. A. Yilmaz, Institut für Geflügelkrankheiten der Justus-Liebig Universität Giessen, 03.04.2003. Result on germ carrier wood at 20°C: 2%-120min.

- **Effective against felines Calicivirus (FCV) stock F9**

Test report Dr. A. Yilmaz, Institut für Geflügelkrankheiten der Justus-Liebig Universität Giessen, 14.10.2002. Result on germ carrier wood: at 20°C 0,5%-120min resp. at 10 °C 2%-60min.

- **Effective against ornithobacterium rhinotracheale**

Test report Prof. Dr. Dr. habil H. M. Hafez, Chemisches und Veterinäruntersuchungsamt, Stuttgart, 24.06.1997. Result of the germ carrier wood at 20°C: 0,5%-15min.

- **Investigation on acute tolerance after one-time peroral application**

Test report Dr. S. Dickhaus, E. Heisler, PHARMATOX GMBH, Sehnde, 09/1989, according OECD 401, Result: The product VENNO® VET 1 can be declared as "practically un toxic" in 2 % dilution with once orale application at the rat.

- **Investigation on primary skin irritation**

Test report Dr. S. Dickhaus, E. Heisler, PHARMATOX GMBH, Sehnde, 09/1989, in 2 % dilution on rabbit according DRAIZE and OECD 404, Result: Toward the Index of primary Irritation with 0 the product VENNO® VET 1 will be declared as "free of irritation".

- **Investigation on eye irritation**

Test report Dr. S. Dickhaus, E. Heisler, PHARMATOX GMBH, Sehnde, 09/1989, at rabbit according DRAIZE and OECD 405, Result: the 2 % dilution of the product VENNO® VET 1 is „Irritant“ with the R-mark No. 36 „Irritating to eyes“.

- **Investigation on steadiness of lacquered surfaces**

Test report Dipl.-Ing. Mathes, Lüdke, TÜV Nord, Institute for material examination, Hamburg, 16.10.2001, Object: 3 metal plates lacquered with 2 compound varnish metallic (silver), 2 compound varnish metallic (red), 2 compound, two coat varnish (green). Result of investigation with approved concentrations 1 %, 2 % and 4 % VENNO® VET 1 super in watery solution: After 5 repetitions of procedure with 4 %, lacquery surfaces without complaint only (green) diminish of gloss. With 1 % and 2 % all lacquery surfaces without complaint.



On the proposal of the Commission and on the grounds of the existing test report, the German Agricultural Association herewith confers the above quality seal approved by the RAL Committee for Delivery Terms and Quality Protection of the German Standardization Organisation to:

Company: MENNO-CHEMIE-VERTRIEB GMBH, Norderstedt

for the following product:

Disinfectant for Veterinary hygiene
VENNO® VET 1 super

Source and literature

Documentation of MENNO CHEMIE-VERTRIEB GMBH
All Test reports and expertise's are available upon request.

Consultation:

MENNO recommendation for the application of the concentration:

Better orientation with MENNO

GPS-Hygiene-Formula

Guaranteed Hygiene = Proper Cleaning + Stringent Foam-Disinfection

1.) Calculation of the Foam - Index (FI):

$$\text{Foam Index (FI)} = \frac{\text{Volume of Foam}}{\text{Volume of Water}}$$

Optimal Foam-Indices are from 7 to 12

2.) Calculation applied volume of solution

$$\text{Applied volume per m}^2 = \frac{\text{Foamlayer-thickness}}{\text{Foam-Index}}$$

Table: Application volume [l/m²]

FI	Foamlayer-thickness			
	2 mm	3 mm	4 mm	5 mm
5	0,40 l/m ²	0,60 l/m ²	0,80 l/m ²	1,00 l/m ²
7,5	0,27 l/m ²	0,40 l/m ²	0,53 l/m ²	0,67 l/m ²
10	0,20 l/m ²	0,30 l/m ²	0,40 l/m ²	0,50 l/m ²
12,5	0,17 l/m ²	0,24 l/m ²	0,34 l/m ²	0,40 l/m ²
15	0,13 l/m ²	0,20 l/m ²	0,27 l/m ²	0,33 l/m ²

3.) Data for resulting amounts of active substance per surface meter upon request from MENNO-CHEMIE

How to use the product and an example of foam application please find in the video:

<https://www.youtube.com/watch?v=pZWYQzwx50>



To ensure the effective amount of active ingredient, the application volume per m² on the target area is required in addition to the effective concentration.

However, only volumes of approx. 100 ml/m² can be achieved with one water application.

In order to guarantee the application rate of 400 ml/m² required by the DVG, the disinfection application has to be carried out up to 4 times without drying the surfaces in the meantime.

This can hardly be realized in terms of time and personnel. That is why foam application is the best option.

The foaming index can be determined with the MENNO measuring cup and the required foam layer can be determined.

You can get the measuring cup (see below) from us.



MENNO CHEMIE-VERTRIEB GMBH

Langer Kamp 104 • D-22850 Norderstedt • Germany

T: + 4940-529 06 670 • F: +4940529 06 67 66 • info@menno.de • www.menno.de