



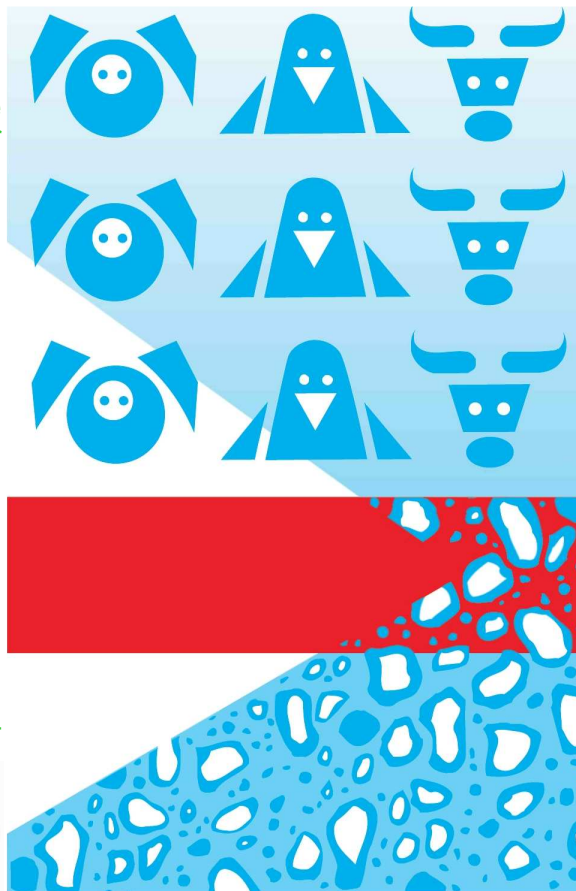
# VENNO<sup>®</sup> VET 1

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



## The advantages of VENNO<sup>®</sup> VET 1 super

- Approved by the DVG (German Veterinary Society) registered in the 12<sup>th</sup> DVG-list of disinfectants for animal husbandry.
- Effectiveness:  
Against uncovered and covered viruses, fungi and bacteria  
Deutsches Tierärzteblatt Mai/2003  
(German Veterinary Journal 05/03)
- Tuberculocid:  
4 %, reaction time 4 hours  
5 %, reaction time 2 hours
- Basic disinfection:  
1 %, reaction time 2 hours
- Prophylactic disinfection:  
1 %, reaction time 0,5 hours
- Aldehyde-free
- Active ingredients: Organic acids
- **Perfectly effective also at low temperatures**
- Suitable also in presence of animals – if properly applicated
- Bears the quality seal of (DLG) Deutsche Landwirtschaftsgesellschaft
- Water pollution class 1



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- Approved by the DVG (German Veterinary Society) registered in the 12<sup>th</sup> DVG-list of disinfectants for animal husbandry.
- Effectiveness:  
Against uncovered and covered viruses, fungi and bacteria (exkl. TbB)  
Deutsches Tierärzteblatt Mai/2003  
(German Veterinary Journal 05/03)
- Basic disinfection:  
2 %, reaction time 2 hours
- Prophylactic disinfection:  
1 %, reaction time 1 hours
- Aldehyde-free
- Active ingredients: Organic acids
- **Perfectly effective also at low temperatures**
- Suitable also in presence of animals – if properly applicated
- „Environmentally beneficial, as well biodegradable (86 %) according OECD Guidelines 301 E“
- Bears the quality seal of (DLG) Deutsche Landwirtschaftsgesellschaft
- Water pollution class 1



## MENNO CHEMIE-VERTRIEB GMBH

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## The advantages of VENNO® VET 1

- Approved by the DVG (German Veterinary Society) registered in the 12<sup>th</sup> DVG-list of disinfectants for animal husbandry.



Effectiveness against uncovered and covered viruses, fungi and bacteria (exkl. TbB). Deutsches Tierärzteblatt Mai/2003, (German Veterinary Journal 05/03). Prophylactic disinfection: 1 % - 1 hour reaction time, Basic disinfection: 2 % - 2 hours reaction time.

- Due to the short reaction times within 2 hours also suitable for prevention of epidemic diseases.

Richtlinien des Bundesministeriums für Ernährung, Landwirtschaft und Forsten über Mittel und Verfahren für die Durchführung der Desinfektion bei anzeigepflichtigen Tierseuchen, 323-3602-19/1, Stand Februar 2007.

- Effective also at low temperatures against CSF (classical swine fever) and FMD (foot and mouth disease)

Approved according DVG-Guidelines at +20 °C, +10 °C, +4 °C and -10 °C with germ carrier test from the Federal Research Centre for Virus Diseases of Animals, Insel Riems, Prof. Dr. Kaden, 08.01.1997. Result: CSF-virus 1 % - 60 minutes, FMD-virus 1 % - 60 minutes.

- Effective against Aujeszky's disease virus

Test report of Dr. W. Herbst, University of Hohenheim, 15.02.1990. Result acc. to DVG-Guidelines: 0.5 % within 15 min.

- Effective against the equine herpes virus serotype 1

Test report of Prof. Dr. Strauch, University of Hohenheim, 29.03.1990. Result of a suspension test according DVG-Guidelines: 0.5 % with 5 minutes reaction time.

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

Test report of Prof. Dr. E. F. Kaleta – Institute for Poultry Disease, Justus Liebig University, Gießen, 27.04.1990. Result according to DVG-Guidelines: 0.5 % at 60 min. reaction time.

- Effective against *serpulina hyodysenteriae* (diarrhoea)

Test report of Dr. Th. Blaha, Tierärztliche Hochschule Hannover, 27.12.1993. Result of the suspension test according DVG-Guidelines: 1 %, 15 min. reaction time.

- Effective against European swine disease and Aujeszky's disease virus

Test report of Prof. Dr. Dr. h.c. B. Liess, Tierärztliche Hochschule Hannover, 06.02.1990. Result of the suspension test according to DVG-Guidelines: Inactivation is obtained by a 1 % application concentration within 15 min., with a 40 % protein burden.

- Effective against *chlamydia*

Test report of Prof. Dr. E. F. Kaleta, Institute for Poultry Disease, Justus Liebig University, Gießen, 17.04.1991. Result of the germ carrier test: Inactivating with a 0.1 % after 30 min. reaction time.

- Effective against bovine parvovirus

Test report of 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 of the suspension test following the DVG-Guidelines without protein burden: Inactivation at 1 °C to 3 °C with 1 % concentration within 30 min. reaction time.

- Effective against *Aspergillus fumigatus*

Test report Technische Mikrobiologie Dr. Jutta Höffler, Hamburg, 05.07.1990. Result: Acc. DVG-Guidl. effective with 2 % - 2 hours.

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

Test report of lic. med. vet. Brigitta Svensmark & cand. med. vet. E. Okholm Nielsen, DANSKE SLAGTERIER-laboratoriet, DK-Kjeilerup, April 1991. Result of the germ carrier test according to DVG-Guidelines: 1 %, within 2 hours.

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

Test report of Dr. B. Haas Federal Research Centre for Virus Diseases of Animals, Tübingen, 23.01.1993. Result of the suspension test accord. DVG-Guidelines: 1 % within 15 min.

- Effective against *canine morbilli virus*

Test report of Prof. Dr. Dr. h.c. B. Liess, Tierärztliche Hochschule Hannover, 05.01.94. Result of the suspension test according DVG-Guidelines: 1 % within 15 min. reaction time.

- Effective against Newcastle Disease Virus (ND), Vaccinia-Virus, Reovirus and ECBO-Virus

Test report Prof. Dr. D. Strauch, Ordinarius for animal hygiene, University Hohenheim, Honorarprofessor at University Stuttgart, Dr. W. Herbst, Ostfildern, 11.09.1989. Result according DVG-Guidelines: Against all Viruses (complete virucidal column 7a DVG-list) 1% for 120 min. resp. 2 % for 60 min. Against uncovered Viruses (limited virucid column 7b of DVG-list) 1% for 30 min. resp. 2% for 15 min.

- Effective against *Staphylococcus aureus*, *Enterococcus faecium*, *Proteus mirabilis*, *Pseudomonas aeruginosa*, *Candida albicans*

Test report Dr. G. Hahn, Institute for Hygiene, Bundesanstalt für Milchwirtschaft, Kiel, 27.11.1989. Result of germ carrier test according DVG-Guidelines: Bactericid, 1 hour reaction time 0,5 – 1,5%; 2 hours reaction time 0,25 – 1,0% Fungicid 1 hour reaction time 1,0%; 2 hours reaction time 0,5%.

- 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:

## • ecological beneficial •

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



## DIPLOMA

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 all kinds of animal houses

**VENNO® VET 1**

## The advantages of VENNO® VET 1 super

- Approved by the DVG (German Veterinary Society) registered in the 11<sup>th</sup> DVG-list of disinfectants for animal husbandry.



Effectiveness against uncovered and covered viruses, fungi and bacteria (exkl. TbB). Deutsches Tierärzteblatt Mai/2003, (German Veterinary Journal 05/03).

Prophylactic disinfection: 1 % - 1 hour reaction time,

Basic disinfection: 1 % - 2 hours reaction time,

Tuberculocid: 4 % - 4 hours or 5 % 2 hours reaction time.

- Due to the short reaction times within 2 hours also suitable for prevention of epidemic diseases.

Richtlinien des Bundesministeriums für Ernährung, Landwirtschaft und Forsten über Mittel und Verfahren für die Durchführung der Desinfektion bei anzeigepflichtigen Tierseuchen, 323-3602-19/1, Stand Februar 2007.

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

Test report close over DVG-Guidelines Federal Research Centre for virus diseases, Isle Riems, Prof. Dr. Kaden, 07/98 – 02/99. Result: CSF-Virus – 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: According DVG-Guidelines effective: with 1 % - 5 min. in suspension-test resp. with 1 % - 30 min. in germ-carrier-test

- Effective against classical Poultry disease (aviäres 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: According DVG-Guidelines effective at 20 °C with 1 % - 10 min. resp. at 10 °C with 1 % - 10 min. resp. at: 4 °C with 1 % - 60 min. or 2 % - 10 min.

- Effective against classical Poultry disease (aviäres 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: According DVG-Guidelines effective at 20 °C with 1 % - 10 min. resp. at 10 °C with 1 % - 10 min. resp. at: 4 °C with 1 % - 60 min. or 2 % - 10 min.

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

Test report Dr. A. Yilmaz, Institut für Geflügelkrankheiten der Justus-Liebig Universität Giessen, 03.04.2003. Result: According DVG-Guidelines effective at 20 °C with 2 % - 2 hours resp. at 10 °C with 2 % - 3 hours.

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

Test report Dr. A. Yilmaz, Institut für Geflügelkrankheiten der Justus-Liebig Universität Giessen, 14.10.2002. Result: According DVG-Guidelines effective at 20 °C with 0,5 % within 2 Stunden resp. acc. DVG-Guidelines at 10 °C with 2 % within 1 hour.

- 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 test according to DVG Guidelines: 0.5 %, - 15 min reaction time.

- Effective against *Newcastle Disease Virus (ND), Vaccinia-Virus, Reovirus and ECBO-Virus*

Test report Prof. Dr. E. F. Kaleta, Institut für Geflügelkrankheiten der Justus-Liebig Universität Giessen, 21.04.1997. Result according DVG-Guidelines: Against all viruses (complete virucid column 7a of DVG-list) 1,0% for 1 hour. Against covered viruses (limited virucid column 7b of DVG-list) 0,5% for 1 hour.

- Effective against *Newcastle Disease Virus (ND), Vaccinia-Virus, Reovirus und ECBO-Virus at +10 °C*

Test report Prof. Dr. E. F. Kaleta, Institut für Geflügelkrankheiten der Justus-Liebig Universität Giessen, 15.12.1997. Result according DVG-Guidelines: For the application for the scope of animal keeping I recommend VENNO® VET 1 super at a

temperature of +10 °C: Against all viruses (corresponding complete virucid column 7a of DVG-list) 1,0% for 1 hour. Against covered viruses (corresponding limited virucid column 7b of DVG-list) 0,5% for 1 hour.

- Effective against *Staphylococcus aureus, Enterococcus faecium, Proteus mirabilis, Pseudomonas aeruginosa, Candida albicans*

Test report Prof. Dr. G. Reuter, Freie Universität Berlin, Veterinärmedizin, 28.02.1997. Result according DVG-Guidelines: Specific disinfection column 4 a, 1 % - 2 hours, preventive disinfection column 4 b, 1 % - 1 hour, fungicidal disinfection column 6, 1 % - 1 hour.

- Effective against *Mycobacterium avium Av 56 at +10 °C*

Test report Dr. H. Brill, Hamburg, 17.11.1997. Result acc. the DVG-Guidelines: 4 % - 4 hours, 5 % - 1 hour, 6 % - 30 min.

- Assessment of Risk

VENNO® VET 1 and VENNO® VET 1 super are free of toxic, carcinogenic, terratogenic or neurotoxic ingredients.

- Investigation on acute tolerance after one-time perorale 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 unotoxic" 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 %, lacquered surfaces without complaint only (green) diminish of gloss. With 1 % and 2 % all lacquered surfaces without complaint.



### DIPLOMA

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:

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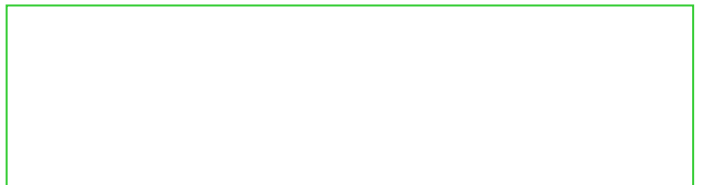
for the following product:

Disinfectant for all kinds of animal houses  
**VENNO® VET 1 super**

### Source and literature

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

Consultation:



# Disinfection against foot and mouth disease and classical swine fever at low Temperatures

„The disinfectant VENNO® VET 1, composed of organic acids, proves to be highly effective even at low temperatures, i.e. it has a low cold defect.“ [1]

The effectiveness of the DVG approved product has been tested at temperatures of +10°C, +4°C und -10°C (Tab.1) in the germ carrier test on wood, rubber and aluminium.

Germ	Disinfectant Exposure time (min)	Effective concentration of disinfectant (given in %)									
		RT			+ 10°C			+ 4°C			- 10°C*
		W	R	A	W	R	A	W	R	A	W
FMD	15										n.t.
	30										n.t.
	60										
	120										
CSF	15										n.t.
	30										n.t.
	60										
	120										

Tab.1: Effectiveness of different VENNO® VET 1-concentrations against FMD- and CSF-viruses in germ carrier tests, [1] Published: Desinfektion bei Maul- und Klauenseuche und Klassischer Schweinepest, Amtstierärztlicher Dienst und Lebensmittelkontrolle, 48-53, 4. I/97, Prof. Dr. V. Kaden, Bundesforschungsanstalt für Viruskrankheiten, Insel Riems.

## Legende:

W Wood (poplar)

R Rubber

A Aluminium

n.t. not tested

\* Propylenglycolic added to disinfectant

FMD Food and Mouth Disease Virus

CSF Classical Swine Fever Virus

DI Disinfectant

RT room temperature

## Concentration (%) of DI, starting to be effective

0,5

1,0

2,0

## Freezing-point of the usable solution lowered by adding Glycol

Temperature	0°C	-10°C	-20°C	-30°C	-40°C
Mass-%	10	25	35	45	55

Tab. 2: freezing points of ethylenglycol-water-mixtures

## Handy helper to estimate VENNO® VET 1 by pH-value

VENNO® VET 1 solution is to be monitored by pH-value with indicator - paperstrips. Depending on the water used, pH-value of a 1 % ready to use solution is between 2,5 and 3,0.

In case of notifiable diseases, applicable animal-disease-regulations are binding, as well as orders by veterinary authorities. Guidelines for Disinfection in case of notifiable diseases, 323-3602-19/1-as per February 2007 mention, besides **DVG-customary trade products**, **raw materials** in Germany as well.

## DVG – customary trade products

The DVG-listing must exist for the relevant indication, i.e.:

Against foot and mouth disease entry in column 7a (against uncovered viruses), against swine fever entry in column 7b (against covered viruses).

Against tuberculosis entry in column 5, etc.

## Raw materials

Under the mentioned directive the substance formaldehyde (formalin, 35-37% watery formaldehyde-solution) is in case of notifiable diseases applicable, but observe:

„at temperatures below + 10 °C insufficiently effective, at temperatures between + 10 und + 20 °C relation of efficiency to temperature is to be considered“

In case of notifiable diseases, applicable animal-disease-regulations are binding, as well as orders by veterinary authorities. Guidelines for Disinfection in case of notifiable diseases, 323-3602-19/1-as per February 2007 mention, besides **DVG-customary trade products**, **raw materials** like: peracetic acid, formic acid, slake, soda lye, bleache, etc.

## DVG – customary trade products

Surface-disinfectants for hygiene in the environment of veterinary use are regarded as BIOCID-Products and are subject to guideline 98/8/EG, product group 3 of biocide – law, dated 20.06.02.

Producers of **customary trade products** like disinfectants cover their liabilities by **liability-insurances**, and are liable for characteristics and effectiveness they indicate and advertise for their products.

## Raw materials

Raw materials are not offered, declared or sold as disinfectants, this means no claim for effectiveness against diseases in the environment of humans or animals is made.

Producers are not to be held liable for these kinds of indications. Raw materials as, per instance, formic acid, soda lye, peracetic acid are known to be quite corrosive to metals!

Only if raw materials are ordered to be used by authorized individuals (like county veterinarians, appointed farm veterinarians etc.), there is an **indication**, and, consequently, a **liability** taken over by these authorized individuals / organizations.