

# Field report: Professional vehicle disinfection as a precaution and during an epizootic mission



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The „Tierseuchen-Vorsorge-Gesellschaft mbH“ (association for epizootic disease prevention) was founded end of 2014 to support affected livestock farmers in North Rhine-Westphalia quickly and effectively in carrying out their tasks - the implementation of officially ordered measures - in the event of an outbreak of animal disease.

The Tierseuchen-Vorsorge-Gesellschaft mbH bundles animal disease specific services in one company. Qualified specialist personnel which is trained especially for the case of an epidemic ensures the appropriate and correct implementation of measures by order of the authorities.

Since 2015, the association for epizootic disease prevention has proven its willingness and ability to perform as an executing service provider in a large number of assignments. In these missions, the veterinary authorities have ordered measures adapted to the respective animal disease.

One such measure is the installation of a vehicle lock! Thus, application technology and the disinfectant used are particularly important. However, technology available at the time of foundation of the association did not meet our requirements to our complete satisfaction.

- It must be possible to start up the system quickly on site, without major personnel or additional technical expenditure.
- The application rate of the disinfectant\* must be 400 ml/m<sup>2</sup> as specified. Thus, the pump technology must also be able to safely provide this performance immediately at full strength under continuous load over a longer period of time. For this purpose there must therefore be an immediate constant and sufficient pressure on all nozzles after triggering.
- Spraying of the vehicle must be carried out from all sides, i.e. front and rear, sides, roof and especially underbody, wheel arch, tyres etc.
- Sufficient spraying must be guaranteed even in strong winds.
- The disinfection gate must be suitable for all types of trucks and cars including trailers.
- At temperatures below freezing point, it must be possible to add commercial antifreeze to the disinfectant solution depending on the degree of cold.
- It must be possible to dose the disinfectant\* safely, even in stressful situations and with full protective clothing.
- It must be possible to spread all common disinfectants\*.

In the course of business activities of the Tierseuchen-Vorsorge-Gesellschaft mbH the Disinfection Gate of company Meier-Brakenberg presented a solution that meets the requirements professionally and safely in the event of need, and can also be operated economically in other operational phases due to the low personnel requirements. For us, the mobile Disinfection Gate of company Meier-Brakenberg is a directly usable solution for short-term mobile, but also longer stationary use *in combination with a suitable drive-through and collection tray that offers us the following advantages, among others:*

- The gate allows the efficient application of specified disinfectant quantities to different vehicle sizes.
- The use of storm nozzles from the marine sector ensures sufficient application of the disinfectant\*, outdoors and even in strong winds.
- The disinfection gate has a reinforced jet in the underbody and rim area as well as a programmable fully automatic drive-through control with high-efficiency light sensor technology with controlled transmitter and receiver mode.
- The mobile Meier-Brakenberg disinfection gate was developed for quick assembly by two persons and has a folding function in light aluminium construction. In principle, the DVG-listed disinfectants are specified by the responsible authority depending on the animal disease, and the application concentration should be used in accordance with the DVG list.

Particularly during the bird flu occurrences in 2016/17 in North Rhine-Westphalia, the Tierseuchen-Vorsorge-Gesellschaft mbH had made very good experiences with the DVG listed product Virkon™ S\*:

- There is no water hazard classification for the product up to an application concentration of 1 %.
- Since the product is not a hazardous material, it can also be transported more easily in a car by our advance team.

The Tierseuchen-Vorsorge Gesellschaft mbH is very satisfied with the combination of the Disinfection Gate of Meier-Brakenberg and the disinfectant Virkon™ S\*. This combination is now also preferred by the Wildtierseuchen-Vorsorge Gesellschaft mbH, an affiliate company for epizootic disease prevention in wildlife stock.



*Easy to set up with two people*



*Storm nozzles and passage control*



*Reinforced nozzle jet in the underbody and rim area*

*\* Products must be registered in accordance with the Biocide Ordinance. Use biocides carefully. Always read label and product information before use.*

The Tierseuchen-Vorsorge-Gesellschaft has been working with company Meier-Brakenberg GmbH & Co. KG for more than 5 years. In addition to disinfection locks, machinery of the disease prevention associations includes autarkic petrol-driven high-pressure cleaners MBH1800V specially designed for outdoor operation. Battery-driven Poryk's PickUps support the recovery of carcasses. The Mobile Disinfection Trolley MBDES200 ensures an efficient and safe disinfection of cleaned surfaces.