

In this Product Data Sheet typical chemical, physical and microbiological properties of **MS MegaDes Para** are explained. All information, including recommendations for use and application of the product are based on our knowledge and experience as at the date of this document.

Product description

MS MegaDes Para is a special disinfectant for use on equipment, surfaces and tools in animal housing, active against bacteria, yeasts and fungi. Furthermore it is active against eggs of the *Ascaris suum* ringworm in empty animal housing and the associated spaces of pigs. **MS MegaDes Para** can be applied by spraying or foaming.



Appearance	Brown liquid
Odour	Characteristic
Shelf life	2 years
Biodegradable	Partially
Active against	Bacteria, yeasts, fungi, eggs from <i>Ascaris suum</i>

Active ingredients

CAS-nr	Ingredient	Concentration (%)
59-50-7	<i>p</i> -Chloro- <i>m</i> -cresol	24

Dilution

Against	Temperature (°C)	Dilution (%)	Minimal contact time (min)
Bacteria, yeasts and fungi	10	2	30
Eggs of <i>Ascaris suum</i>	10	4	180
	10	6	120
	20	4	120

Storage and handling

Store **MS MegaDes Para** in the closed original container at frost free conditions in a dark and well ventilated room. Optimal storage temperature is between 4 - 30°C. Storage above and below these temperatures might adversely affect product properties.

Handle the product with care and with the right personal protection gear (protective clothing, safety goggles, gloves) and under sufficient exhaust ventilation.

Further detailed safety information can be found in the **Material Safety Data Sheet**.

Standard packaging

Size (kg)	Packaging	Material	Size (L x W x H) (mm)	Color
10	Can	HDPE	232 x 192 x 309	Blue
20	Can	HDPE	297 x 260 x 357	Orange

Packaging sizes mentioned above are standard sizes, depending on the country other sizes might be available. Contact your local advisor for more information.

MS MegaDes Para

Product Data Sheet

Version 1.0 APR 2022

Registration

MS MegaDes Para is registered in the Netherlands and will be registered under BPR for:

- Use on hard surfaces and spaces in animal housing, including animal transport against bacteria, moulds and yeasts (PT3).
- Use in empty animal housing and the associated spaces of pigs against eggs of the *Ascaris suum* ringworm (PT3).

Contact your local advisor for specific registration regulation and status in your country.

Efficacy

Standard norms were used to prove the efficacy of **MS MegaDes Para** against various pathogens (bacteria, yeasts, moulds and parasites). All EN norms used are applicable for testing chemical disinfectants and antiseptics for the use in veterinary areas. These tests are performed in accredited labs and the effective concentration is determined according to the reduction pass criterium given in the respective norm. The conditions (type of test (suspension or surface), temperature, time and soiling level) of the test are described in the norm. These conditions have a strong influence on the effective concentration. It is not possible to compare efficacy data of different products when the test conditions are different or unknown.

Norm	Description	Reduction pass criterium
EN 1656	Quantitative suspension test for the evaluation of bactericidal activity.	≥ log 5 (99.999 %)
EN 1657	Quantitative suspension test for the evaluation of fungicidal or yeasticidal activity.	≥ log 4 (99.99 %)
EN 14349	Quantitative surface test for the evaluation of bactericidal activity on non-porous surfaces.	≥ log 4 (99.99 %)
EN 16437	Quantitative surface test for the evaluation of bactericidal activity on porous surfaces.	≥ log 4 (99.99 %)
EN 16438	Quantitative surface test for the evaluation of fungicidal or yeasticidal activity on non-porous surfaces.	≥ log 3 (99.9 %)

DVG: Disinfectant test in accordance with the guidelines for the testing of disinfection procedures and chemical disinfectants of the German Society of Veterinary Medicine (livestock farming) – efficacy against parasites.

FUNGICIDAL / YEASTICIDAL EFFICACY

Organism	Norm	Medium	Time (min)	Temperature (°C)	Soiling*	Concentration (%)
<i>Aspergillus brasiliensis</i>	EN 1657	Suspension	30	10	3 g/l BA	2.00
	EN 16438	Non-porous	30	10	3 g/l BA	2.00
<i>Candida albicans</i>	EN 1657	Suspension	30	10	3 g/l BA	1.00
	EN 16438	Non-porous	30	10	3 g/l BA	2.00

PARASITIC EFFICACY

Organism	Norm	Medium	Time (min)	Temperature (°C)	Soiling*	Concentration (%)
<i>Ascaris suum</i> eggs	DVG	Suspension	120	10	3 g/l BA	4.00
	DVG	Non-porous	120	10	none	6.00
	DVG	Non-porous	180	10	none	4.00
	DVG	Non-porous	120	20	none	4.00
<i>Cryptosporidium parvum</i>	DVG	Suspension	120	10	3 g/l BA	6.00

*BA = Bovine Serum Albumin

MS MegaDes Para

Product Data Sheet

Version 1.0 APR 2022

BACTERICIDAL EFFICACY

Organism	Norm	Medium	Time (min)	Temperature (°C)	Soiling*	Concentration (%)
<i>Enterococcus hirae</i>	EN 1656	Suspension	30	10	3 g/l BA	1.00
	EN 14349	Non-porous	30	10	3 g/l BA	2.00
<i>Pseudomonas aeruginosa</i>	EN 1656	Suspension	30	10	3 g/l BA	1.00
	EN 14349	Non-porous	30	10	3 g/l BA	2.00
<i>Proteus vulgaris</i>	EN 1656	Suspension	30	10	3 g/l BA	1.00
	EN 14349	Non-porous	30	10	3 g/l BA	2.00
<i>Staphylococcus aureus</i>	EN 1656	Suspension	30	10	3 g/l BA	1.00
	EN 14349	Non-porous	30	10	3 g/l BA	2.00

*BA = Bovine Serum Albumin

Usage calculation

BACTERIA, YEASTS, FUNGI

Wetting	0.4 L/m ²
Concentration	2.0 %
Density	1.115 kg/L

Amount of **MS MegaDes Para** needed for 1 m²:
 $0.02 * 0.4 = 0.008 \text{ L/m}^2$

Area that can be disinfected with 1 kg **MS MegaDes Para**:
 $1 / (0.008 * 1.115) = 112 \text{ m}^2$

EGGS FROM ASCARIS SUUM

OPTION 1

Wetting	0.4 L/m ²
Concentration	4.0 %
10°C, 3h or 20°C, 2h	

Amount of **MS MegaDes Para** needed for 1 m³:
 $0.04 * 0.4 = 0.016 \text{ L/m}^2$

Area that can be disinfected with 1 kg **MS MegaDes Para**:
 $1 / (0.016 * 1.115) = 56 \text{ m}^2$

OPTION 2

Wetting	0.4 L/m ²
Concentration	6.0 %
10°C, 2h	

Amount of **MS MegaDes Para** needed for 1 m³:
 $0.06 * 0.4 = 0.024 \text{ L/m}^2$

Area that can be disinfected with 1 kg **MS MegaDes Para**:
 $1 / (0.024 * 1.115) = 37 \text{ m}^2$

Wetting

The wetting of **MS MegaDes Para** on a coated surface was compared with water. The better the wetting of a product, the better the spreading of the product on the surface and the better the contact. This will result in better disinfection. The shape of a droplet on a surface is a measure of the wetting. The flatter the droplet is, the better the wetting. The wetting of **MS MegaDes Para** at use concentration is much better than water.



MS MegaDes Para

Product Data Sheet

Version 1.0 APR 2022

Corrosivity

The interaction of **MS MegaDes Para** with various materials (metals and plastics) was determined in a coupon immersion and mass loss test. Coupons of the various materials were immersed into a 6% solution of **MS MegaDes Para** for 7 days (168 hours). This time is equivalent to 84 times soaking for 120 minutes. The corrosion rate was calculated using the following formula:

$$Rc = K \times \frac{W}{A \times T \times D}$$

where:

Rc = corrosion rate (mm/y)

K = constant (= 87600)

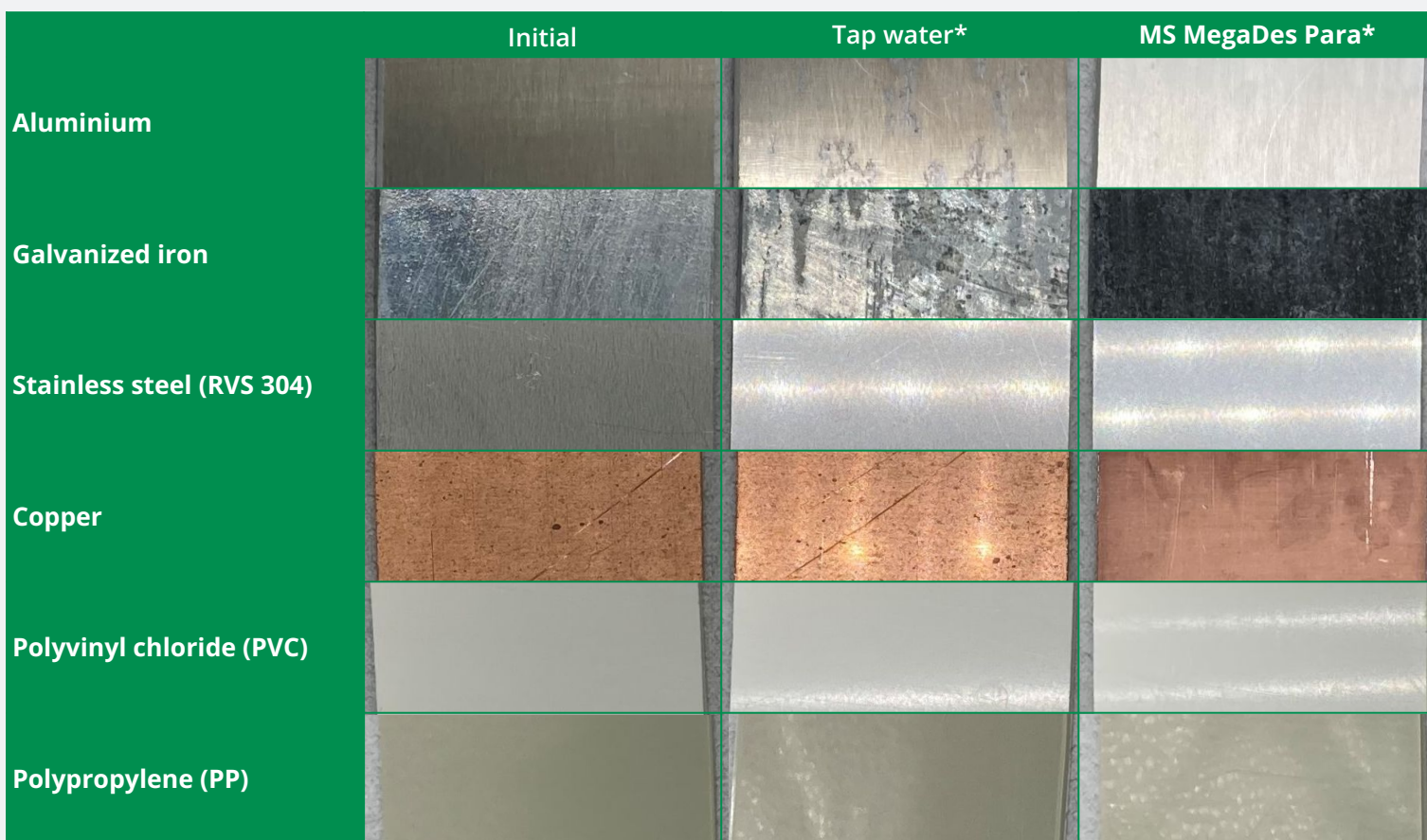
W = mass loss (g)

A = area (cm²)

T = exposure time (h)

D = density (g/cm³)

Material	Corrosion rate (mm/y)
Aluminium	0.23
Galvanized iron	1.44
Stainless steel (RVS 304)	< 0.05
Copper	0.09
Polyvinyl chloride (PVC)	< 0.05
Polypropylene (PP)	< 0.05



*Materials were immersed in solution for 168 hours.

MS MegaDes Para is reacting with galvanized iron, and therefore it is not recommended to use **MS MegaDes Para** on this material. On aluminium a color change is visible, and the material is mildly corroded. It can be concluded that **MS MegaDes Para** is not corrosive to plastics, stainless steel and copper.

Disclaimer

All results and recommendations made in this document are based on tests performed with MS Schippers materials. The Schippers Group recommends strongly to perform tests at the location of use and with the local application equipment to ensure the optimal use of the product. Contact your local advisor for assistance.