

RHEOSEPT®



Only few disinfectant wipes deliver on what they promise!

Over the last years, disinfectant dispenser systems have become increasingly popular. But recent studies reveal that their effect is not always guaranteed. RHEOSOL has now responded with a state-of-the-art and innovative solution:

RHEOSEPT-WD plus Wipes for surface disinfection at the highest level!

nwc NW CHEMIE

The problem

A study published in the German professional journal "Krankenhaus-Hygiene + Infektionsverhütung" (Hospital hygiene + infection prevention) revealed alarming numbers. The study could demonstrate that – especially in alcohol-free wipes – up to 60% of active substances remain in the wipe material.

Additionally, a publication of the VAH (German Association for Applied Hygiene) on hygiene risks in connection with disinfectant wipes still nourishes uncertainties among users and manufacturers. The fact that dispensing buckets and boxes can develop into real "germ factories" contradicts current hygiene concepts. Disinfecting effect, lifetime and useful life have often not been examined and are therefore unclear.

And finally, many wipes do not deliver convincing results in practice! In many cases, the wipe materials used cannot soak up the disinfectant and have only little absorbency. Even large wipes are usually not able to disinfect surfaces of a reasonable size.

With RHEOSEPT-WD plus Wipes, we offer an innovative and practical product that sets new standards in the field of disinfection and provides maximum product safety for users in the medical sector.



RHEOSEPT®



FACTS

- Broad-range effect against: bacteria, fungi, viruses
- Stops MRSA, NORO, influenza
- High yield: up to 3 m² per wipe
- Economical and effective
- Top-quality wipe material: extra soft
- Wipe material with excellent suction and cleaning properties
- Disinfection and cleaning in one step
- Ready for use
- Safe disinfection performance through unique impregnation
- No more dried-up wipes
- Gentle to medical products
- Pleasant scent
- No risks for staff and patients
- Gentle to the skin, Dermatest result: "excellent"



1. Broad-range disinfection effect: bacteria, fungi, viruses

RHEOSEPT-WD plus Wipes are effective against bacteria, fungi and enveloped viruses, but also against NORO and ROTA. The disinfectant is tested and approved according to EN 1276, 13697, 1650, 13727, 13624 and listed with the VAH in accordance with the rules of the DGHM.

2. Stops MRSA, NORO, influenza

RHEOSEPT-WD plus Wipes are an important component for the control of nosocomial infections, such as MRSA, VRE and ESBL. In addition, the wipes are recommended for use against viral diseases such as NORO, ROTA and influenza.

3. High yield: up to 3 m² per wipe

With a single RHEOSEPT-WD plus Wipe, a surface area of up to 3 m² can be disinfected and cleaned. That means: one wipe covers the entire near-patient area in hospitals, nursing homes and medical practices. A capacity that conventional disinfectant wipes do not reach by far! For small areas, RHEOSEPT-WD plus Wipes mini have been developed.

4. Economical and effective

RHEOSEPT-WD plus Wipes help you save money! There is no material loss, the cleaning staff does not have to laboriously prepare and change the disinfection solution. The wipes are designed such that one wipe is enough to cover the entire near-patient area. All field trials show top-notch hygiene results with maximum economic efficiency!

5. Top-quality wipe material: extra soft

Many users confirm: RHEOSEPT-WD plus Wipes convince even through the quality of the material used. Users can feel it right on their hands – and it becomes particularly evident on the surface to be treated.



6. Wipe material with excellent suction and cleaning properties

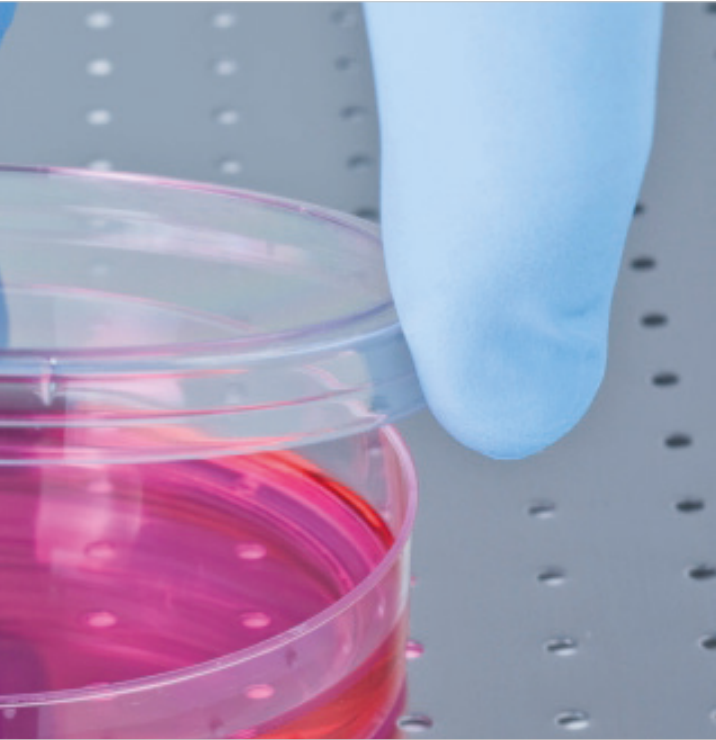
Unlike many commercially available disinfectant wipes, the material used for RHEOSEPT-WD plus Wipes can store large amounts of disinfectant and then evenly release it again. The cleaning and suction power of RHEOSEPT-WD plus Wipes are absolutely compelling.

7. Disinfection and cleaning in one step

In addition to their disinfection power, RHEOSEPT-WD plus Wipes also feature a great cleaning power. Thanks to a special surfactant, even delicate surfaces can be easily cleaned.

8. Ready for use!

The days when you had to first prepare the disinfection solution to soak tissues with it are gone. No more waiting! RHEOSEPT-WD plus Wipes are ready for immediate use!



9. Safe disinfection performance through unique impregnation

The unique impregnation technique used for RHEOSEPT-WD plus Wipes ensures: no loss of active substances through the quality of the tissue material. Active disinfection substances are completely released to the treated surface. Thus, the risks involved in surface treatment are extremely minimised over other surface disinfection methods. A fact that convinces even the most critical hygiene officer.

10. No more dried-up wipes

The fluid used for soaking no longer evaporates as with other alcohol-based disinfect-

tant wipes. Tests under extreme conditions have shown that the practical adhesive flap of the packaging ensures that the wipes retain their full effectiveness for months. Even with the packaging fully opened, no limited effectiveness could be determined after more than a month. The wipes can be used 28 days after initial opening.

11. Gentle to medical products

Even delicate surfaces are not detrimentally affected by RHEOSEPT-WD plus Wipes. The product is suitable for sensitive ultrasonic probes and does not affect acrylic surfaces or sensitive sealing materials. Ambulance vehicle manufacturers confirm that the wipes are perfectly suited for interior treatment.

12. Pleasant scent

The times of bad-smelling disinfectants are over! The scent of RHEOSEPT-WD plus Wipes is very appealing and thus helps achieving strict hygiene requirements.

13. No risks for staff and patients

There is nothing to fear if the skin comes in touch with RHEOSEPT-WD plus Wipes. The product was given an "Excellent" by DERMA-TEST for its high level of skin compatibility. This proves that staff and patients are on the safe side!

14. Best hygiene compliance

Clinical observations delivered the proof: RHEOSEPT-WD plus Wipes provide for a significant improvement in overall hygiene. Even critical spots in the hospital could be defused. RHEOSEPT-WD plus Wipes significantly increase hygiene safety!

Expert Report of the VAH

Recommendation on the control of critical points when using dispenser systems for pre-soaked surface disinfection wipes

The Disinfectants Commission of the Verband für Angewandte Hygiene e.V. (VAH), the German Association for Applied Hygiene, has published a recommendation concerning pre-soaked disinfectant wipes in dispensing buckets in 2012. It has been prepared on the background of issues in connection with the use of that wipe/dispenser combination that represent a significant increase in risk for medical facilities. The recommendation is actually highlighting 6 critical points, which will be shown in more detail on the following pages.

The use of disinfectant wipes that are soaked with a diluted solution by the user, does – with a look at their actual use in practice – not comply with the recommendations of the RKI (Robert Koch Institute). Following RKI recommendations, prepared solutions must be used up within one day; and also the VAH write in the preface of the VAH List of Disinfectants that diluted solutions should always be prepared fresh.



Verband für Angewandte Hygiene e.V.
Desinfektionsmittel-Kommission

Verantwortlich:
Prof. Dr. med. Martin Exner
(Vorsitzender)
Dr. rer. nat. Jürgen Gebel
(Schriftführer)

Verband für Angewandte Hygiene e.V.
Desinfektionsmittel-Kommission

c/o Institut für Hygiene und Öffentliche Gesundheit der Universität Bonn
Sigmund-Freud-Str. 25
53127 Bonn
Tel: 0228 287-14022
Fax: 0228 287-19522
E-Mail: info@vah-online.de
Internet: www.vah-online.de

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Desinfektionsmittelkommission im VAH unter Mitwirkung der „4+4-Arbeitsgruppe“

Empfehlung zur Kontrolle kritischer Punkte bei der Anwendung von Tuchspender-systemen im Vorränksystem für die Flächendesinfektion

1. Hintergrund

Grundlage für die Empfehlung der Desinfektionsmittel-Kommission im VAH ist die Empfehlung „Anforderungen an die Hygiene bei der Reinigung und Desinfektion von Flächen“ der Kommission für Krankenhaushygiene und Infektionsprävention (KRINKO) beim Robert Koch-Institut aus dem Jahr 2004. Hierin wird unter anderem folgendes gefordert:

„Gebrauchslösungen von Desinfektionsmitteln dürfen maximal einen Arbeitstag lang verwendet werden (Kategorie IB).“

Bei der Herausgabe dieser Empfehlung konnten noch nicht die Besonderheiten von Tuchspendersystemen im Vorränksystem für die Flächendesinfektion berücksichtigt werden, da diese noch keine breite Anwendung gefunden hatten. Tuchspendersysteme finden mittlerweile jedoch eine erhebliche Verbreitung und hohe Compliance bei der Anwendung, insbesondere bei der Desinfektion von patientennahen Bereichen. Entgegen der oben angegebenen Anforderung, dass Gebrauchslösungen von Desinfektionsmitteln nur maximal einen Arbeitstag lang verwendet werden dürfen, wird entsprechend den Angaben der Hersteller die Anwendung der in den Behältern befindlichen mit geprüften und VAH-gelisteten Desinfektionsmitteln getränkten Tücher über einen Zeitraum von bis zu 28 Tagen empfohlen.

Im Vorwort zur VAH-Desinfektionsmittel-liste heißt es zur Flächendesinfektion: „Gebrauchslösungen sind, sofern die Präparate nicht als solche konfektioniert sind, in der Regel frisch zuzubereiten; dies gilt stets für Desinfektionsmittel auf der Basis von Peroxidverbindungen und für chlorabspaltende Verbindungen.“

Weiterhin heißt es im Vorwort

„Übrig gebliebene Gebrauchslösungen dürfen nicht offen über längere Zeit stehen (maximal einen Arbeitstag, Herstellerangaben beachten).“

Vorränksysteme in Eimern mit Standzeiten bis zu 28 Tagen sind daher bislang nicht in den entsprechenden Listen für geprüfte und für wirksam befundene Desinfektionsmittel aufgeführt, da hierzu bisher keine validierten Prüfverfahren existierten.

Die Wirksamkeit vorgetränkter Tücher in diesen Vorränksystemen und die hierzu in der VAH-Desinfektionsmittelliste gelisteten Angaben beziehen sich lediglich auf die Prüfung der Lösung, nicht jedoch auf die Wirksamkeit der Flächendesinfektion mit Tüchern im Vorränksystem über Standzeiten von bis zu 28 Tagen.

Somit stellt das derzeitige Tuchspendersystem im Vorränksystem eine Neuerung dar, die weder in der Empfehlung der KRINKO zur Reinigung und Desinfektion von Flächen, noch in den Prüfverfahren nach VAH hinsichtlich der Wirksamkeit, insbesondere bei längeren Standzeiten, methodisch abgebildet sind. Die Angaben zur Wirksamkeit beziehen sich bislang lediglich auf Angaben der Hersteller.

Wegen der mittlerweile hohen Compliance und breiten Anwendung des Tuchspendersystems im Vorränksystem hält es die Desinfektionsmittel-Kommission jedoch für erforderlich, Hinweise für die Aus-

Source: Verband für Angewandte Hygiene e.V.
Disinfectants Commission
Responsible persons:
Prof. Dr. med. Martin Exner (Chairman)
Dr. rer. nat. Jürgen Gebel (Secretary)

Critical issues in connection with the application of pre-soaked wipe dispenser systems

The VAH identified the following critical points in the aforementioned publication:

1. Using pre-contaminated disinfectant solutions

In most cases, wipe dispenser buckets are filled with self-prepared disinfectant solutions. The germ load introduced by existing biofilms on fittings and disinfectant dispensers may lead to a pre-contaminated disinfectant solution – a fact that gains significant relevance against the background of tolerance/resistance formation and the long service life of refillable dispensing buckets. Dispensing buckets with biofilms were actually discovered in medical facilities. In our experience, the wipes themselves may already be contaminated before the bucket is filled. The hygienically impeccable origin of the wipes is often not secured.

➤ RHEOSEPT-WD plus Wipes are pre-soaked with the ready-to-use disinfectant solution and filled into their packages under hygienic conditions at the factory. This excludes a pre-contamination of the disinfectant solution. The materials used for the wipes are tested intensively and sourced from reputable and certified manufacturers.

2. Use of wipes that are not compatible with the disinfectant

The "consumption" of active ingredients by the wipe material has been repeatedly discussed. Studies found out that particularly QAC-based active ingredients are held back by the cloth fibres by up to 60%. This effect is further enhanced by the long service life of voluminous dispensing containers. Through the use of PE and PET cloth qualities, this effect can be mitigated. Nevertheless, there are many cloth/active substances combinations used that have not been validated yet. This fact may actually lead to supposed

disinfection measures without the desired effect.

➤ A special impregnation process ensures that the complete set of active substances contained in RHEOSEPT-WD plus Wipes is released onto the treated surface. This has been demonstrated even after prolonged storage. This makes RHEOSEPT-WD plus Wipes the safest disinfectant wipes on the market!

3. Loss of efficacy during longer periods of use

In various active ingredients a long service life results in a significant loss of efficacy. The evaporation of alcohols, the decrease of the oxidative effect of peroxides or chlorine, and the gradual deactivation of other active substances has always led to the recommendation to avoid long periods of use in the past. In most cases, the effect of the service life has never been investigated in connection with different types of wipes.

➤ RHEOSEPT-WD plus Wipes are even always fully effective – even after long storage and service lives under adverse conditions (heat, cold). Even with opened packages, laboratory tests after 40 days storage at 40 °C could not determine any losses of efficacy. Stability testing revealed: If stored in their original unopened packages, the wipes are just as effective as on the first day, even after 4 years of storage.

Source: Hyg Med 2012; 37-11 / VAH Disinfectant Commission in cooperation with the "4+4 Working Group"

➤ Recommendation on the control of critical points when using dispenser systems for pre-soaked surface disinfection wipes

4. Loss of efficacy due to drying of the wipes

Poorly sealed buckets inevitably lead to drying and thus to a loss of efficacy of the wipes. Particularly volatile active ingredients such as alcohols escape through incompletely sealed bucket lids. In our view, methods with a long service life of the wipe container are therefore excluded for alcohol-based disinfectants.

➤ **RHEOSEPT-WD plus Wipes do not contain active substances that evaporate quickly or are inactivated after a certain period of time. In addition, the highly absorbent wipes can be soaked significantly better than other commercially available wipe material grades. Our storage and practical tests clearly show that RHEOSEPT-WD plus Wipes are still fully effective after 6 months of their first use if the packaging is properly sealed after each use. Upon complete opening of the packaging, the efficacy is still ensured for as long as 28 days. It has also been found that the adhesive flap seals the packaging better than other commercially available hinged lids.**

5. Contamination of wipes protruding from buckets

Wipes protruding from the dispensing container may become contaminated. Especially if the wipes are not used for a longer period of time. This risk is given through already contaminated gloves or in wet areas. The protruding wipes must therefore be disposed of; in practice, this could affect every second wipe, which is why this is never actually done.

➤ **With RHEOSEPT-WD plus Wipes, no protruding wipes can be contaminated. When we developed the packaging, we made sure that no wipes are pulled out together with another one, which prevents the risk of contamination of the next wipe with the glove of the user. In addition, the total soaking volume of a wipe is sufficient to ensure appropriate long-term self preservation.**

6. Multiplication of gram-negative bacteria in containers

And finally, the reuse of dispenser buckets represents a significant risk. During an outbreak of *Klebsiella oxytoca*, the pathogen could actually be detected in used disinfectant buckets. In most cases, the dispenser buckets are not processed when being refilled – even if this is provided by the RKI with respect to cleaning buckets and other containers after the completion of cleaning and disinfection activities. Containers should therefore at least be cleaned and disinfected and then dried before refilling. Typically, these steps are not performed. In our view, also the external contamination of buckets should not be neglected. Especially with containers with large quantities and long service lives, significant amounts of contamination occur.

➤ **With RHEOSEPT-WD plus wipes, no *Klebsiella* species are collected and bred within the packaging! The wipes are available in practical and hygienic flat packs that are not reused. No bulky bucket, no reuse of contaminated packaging, no processing and refilling costs... The product is available for the user immediately, at low costs and, above all, in an impeccably hygienic state.**

Source: Hyg Med 2012; 37-11 / VAH Disinfectant Commission in cooperation with the "4+4 Working Group"

➤ Recommendation on the control of critical points when using dispenser systems for pre-soaked surface disinfection wipes

RHEOSEPT-WD plus Wipes

Alcohol-free disinfectant wipes

CE
0044



This medical device is CE certified (CE0044)

Pre-soaked alcohol-free disinfectant wipes with very high – and at the same time gentle – cleaning power. Effective after only 1 minute. Suitable for waterproof surfaces (incl. acrylic glass) and medical inventory within the meaning of the German Medical Devices Act (Medizinproduktegesetz, MPG). Pleasant scent. Full release of active ingredients to ensure the disinfection effect (no loss of active ingredients in the wipe material). High-quality wipe material with high soaking capacity in different sizes. For the disinfection of medical instruments and small surfaces: RHEOSEPT WD plus Wipes mini. For the disinfection of larger surfaces (area around the patient) of at least 3 m²: RHEOSEPT-WD plus Wipes. Practical wipe removal and resealing without product contact through adhesive flap. No fast loss of efficacy due to drying.

Areas of application

Prevention and control of infectious diseases. Rapid disinfection by wiping for all water-resistant surfaces of medical products, such as device surfaces, ultrasonic transducers, medical sensors, seats, couches, tubs – and also sunbeds. Suitable for materials such as plastics, coatings, ceramics, acrylic glass, etc. Special proofs of suitability for Plexiglas, ultrasonic transducers and interiors of ambulance vehicles are available.

RHEOSEPT®

Instructions for application

Wipe surfaces with a disinfectant wipe. Make sure to completely wet the surfaces being treated to ensure optimal disinfection efficacy. Wipe dry with a disposable cloth after the recommended contact time, if required. Remove dirt with a separate disinfectant wipe to ensure the disinfectant effect. Dispose of the wipes after use. The wearing of gloves is recommended. Open packs can be used for up to 28 days. If the packaging is carefully closed after each use, the wipes can be used for up to 6 month after initial opening. Closed packs can be used for up to 48 months (after manufacturing date).

Range of action

Effectiveness: bactericidal, yeasticidal, limited viricidal (HIV, HBC, HCV, influenza, vaccinia, SARS-CoV-2) and noro, rota.

Contact times

Application	Dosage	Note
Contact time – 60 seconds	undiluted	bactericidal / yeasticidal EN 1276, EN 13697, EN 1650, EN 13727, EN 13624, EN 16615
Contact time – 5 minutes	undiluted	bactericidal / yeasticidal (VAH) low load/mechanics
Contact time – 60 seconds	undiluted	limited viricidal (HIV, HBV, HCV, vaccinia, influenza, SARS-CoV-2) EN 14476
Contact time – 30 minutes	undiluted	norovirus (MNV) EN 14476
Contact time – 60 seconds	undiluted	rotavirus EN 14476
Contact time – 5 minutes	undiluted	polyomavirus SV40 DVV/RKI

Composition

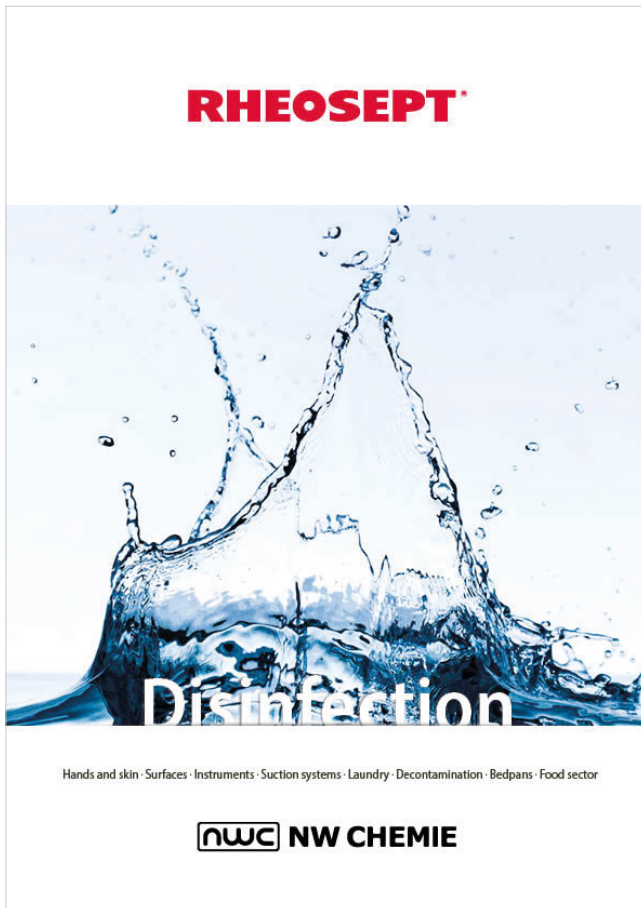
100g of liquid include: dialkyl dimethyl ammonium chloride 0.25g , benzalkonium chloride 0.25g, alkyl dimethyl (ethylbenzyl) ammonium chloride 0.25g. Other ingredients: fragrances.

Available delivery units

Item no.	Trading unit	Packing unit
20570003	RHEOSEPT-WD plus Wipes, pack of 48 wipes	Box of 6 packs
20570011	RHEOSEPT-WD plus Wipes mini, pack of 30 wipes	Box of 24 packs

Disinfection program

In addition to RHEOSEPT-WD plus Wipes, we also offer a comprehensive disinfection program for other areas.



- Hand and skin disinfection
- Surface disinfection
- Instrument disinfection
- Laundry disinfection
- Disinfection according to § 18 of the German Infection Protection Act pursuant to the RKI
- Bedpan treatment
- Disinfection in the food sector

Proven efficacy

Disinfection products must work reliably – ultimately, it is all about the health and lives of people. Therefore international legislators require corresponding reference methods.

In Germany, the test standards of "Deutsche Gesellschaft für Hygiene und Mikrobiologie" (DGHM) have been widely recognised for many years (see VAH list). Also the Robert Koch Institute defined appropriate microbiological efficacies very early. Standardised methods developed under practical conditions on an international level. In Europe, tests based on the internationally recognised EN standards ensure efficacies on a high level. Today, germ reduction levels are so high that risks can be significantly reduced even under unfavourable conditions. Today, there is a generally recognised equivalency between the test methods according to the DGHM in Germany and the European EN test methods, which is why inclusions in the VAH list are widely recognised even beyond the borders of Germany and Europe.

Tests are performed using standardised reference germs ensuring that the broadest possible efficacy of the products can be established. Depending on the underlying standard, the required germ reduction ranges at five log levels (99.999%) – which is partly significantly above other international standards. The commissioned test institutes have been carefully selected by us and are accredited laboratories of international renown.

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nwc NW CHEMIE



NW-Chemie GmbH
Langbaurchstr. 15
DE 53842 Troisdorf
+49 2241 3923-0
+49 2241 3923-90
www.rheosol.com
info@rheosol.com

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