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Wen es betrifft

**BETREFF : Information – Die viruzide Wirksamkeit des in DEGRES L + und in ENZYMOUSSE + enthaltenen bioziden Wirkstoffs C12-16-Alkyldimethylbenzylammoniumchlorid (BKC)**

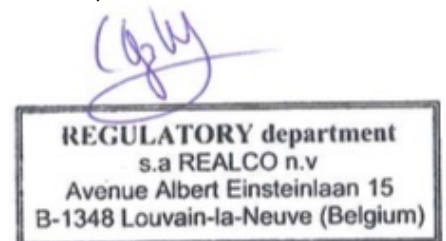
Die Coronavirus-Familie gehört zur Gruppe der umhüllte Viren. Umhüllte Viren reagieren relativ empfindlich auf Austrocknung, Hitze und Reinigungsmittel.

Der Wirkstoff, der in DEGRES L + - und ENZYMOUSSE + -Produkten enthalten ist : C12-16-Alkyldimethylbenzylammoniumchlorid (BKC - CAS-Nummer: 68424-85-1) ist gegen umhüllte Viren (\*) wirksam.

Das BKC wurde unter sauberen Bedingungen an dem Influenzavirus H1N1 gemäß der europäischen Norm DIN EN14476 / 2005-08 getestet. Die Ergebnisse zeigen eine viruzide Wirksamkeit gegen das H1N1-Influenzavirus bei einer Konzentration von 375 ppm in BKC bei Raumtemperatur und nach 10 Minuten Kontaktzeit.

DEGRES L + und ENZYMOUSSE + enthalten, bei der empfohlenen Verwendungskonzentration von 1%, 460 ppm BKC.

Neu-Löwen, den 27. März 2020



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Regulatory Department

(\*) Siehe Anhang : Biocides information sheet – Nouryon – 6. Februar 2020

## Biocides Information sheet

# Virucidal Efficacy

### Triameen Y12D, Arquad MCB, Arquad 2.10

Viruses are small infectious agents replicating only inside of living cells of their hosts. They can infect all types of life forms like humans, animals, plants and microorganisms. Usually they have a narrow host range.

There are 2 main groups based on their structure: enveloped and non-enveloped viruses.

Enveloped viruses have a lipid envelope which is relatively sensitive to desiccation, heat and detergents. They are easier to be inactivated by biocidal active substances than non-enveloped viruses.

Examples for enveloped viruses are listed below:

- Herpesviruses (e.g. Epstein-Barr virus, Herpes simplex, Bovine alphaherpesvirus 1 (causing Bovine Rhinotracheitis), suid herpesvirus 1 (causing pseudorabies=Aujeszky's disease))
- Poxviruses (e.g. smallpox, vaccinia virus)
- Hepadnaviruses (e.g. Hepatitis B virus)
- Asfarviridae (e.g. African Swine fever)
- Flavivirus (e.g. Hepatitis C, yellow fever virus, Zika virus, dengue virus)
- Alphavirus (e.g. eastern equine encephalitis virus)
- Togavirus (e.g. Alphavirus)
- Coronavirus (e.g. SARS virus, MERS virus, novel coronavirus (2019-nCoV – Wuhan coronavirus outbreak))
- Hepatitis D virus
- Orthomyxovirus (e.g. Influenza virus A (H1N1-swine flu, H3N2-Hong Kong flu, H9N2-avian influenza, H3N8, H5N1, H5N2...), Influenza virus B, Influenza virus C, Influenza virus D)
- Paramyxovirus (e.g. mumps virus, human parainfluenza virus, measles virus, canine distemper virus, rinderpest virus)
- Rhabdovirus (e.g. rabies virus)
- Bunyavirus (e.g. Hantavirus, California encephalitis virus, Congo hemorrhagic fever virus)
- Filovirus (e.g. Ebola virus, Marburg virus)
- Retrovirus (e.g. Human Immunodeficiency Virus (HIV), Mouse mammary tumor virus)
- Arteriviridae (e.g. Porcine Respiratory and Reproductive Syndrome Virus (PRRSV))

The biocidal active substances in our products below are effective against enveloped viruses

- **Triameen Y12D, Triameen Y12D-30**  
(N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine - CAS No.: 2372-82-9)
- **Arquad MCB-50, Arquad MCB-80**  
(BKC = C12-16-alkyldimethylbenzylammonium chloride - CAS number 68424-85-1)
- **Arquad 2.10-50, Arquad 2.10-70 HFP, Arquad 2.10-80**  
(DDAC = Didecyldimethylammonium chloride - CAS number 7173-51-5)

This is shown in numerous literature studies.

Own test data are available for Influenza virus H1N1. Details can be received on request.

Customer formulations containing our products will still have to be tested according to national regulations. In case a (biocides) registration scheme is in place customer products might need (national) approval before being placed on the market.

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## **Nouryon Surface Chemistry AB**

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