

Glyclean™ D

The sustainable disinfectant for Europe

Glyclean™ D

The Power of Nature

Glyclean D is a family of disinfecting products based upon the natural power of glycolic acid. Glycolic acid is the smallest of the “fruit” acids and is found in a wide variety of produce we eat every day. Its small size and unique chemistry make it a highly effective and efficient antimicrobial agent that is easy on the environment. Chemours glycolic acid is identical to the glycolic acid found in nature, but we synthesize the molecule in a highly efficient process in the United States.

BPR Support

The family of products being supported in the EU and Great Britain Biocidal Products Regulations are:

- Glyclean D70E (standard grade)
- Glyclean D70HP (high purity grade)
- Glyclean D99 (solid crystalline grade)

The Glyclean D dossier has been submitted to the Dutch Competent Authority for review.

EU National Registrations

The Glyclean D products can be utilized in formulations for National Registrations. The BPR process provides a transition period that supports registering new formulations utilizing Glyclean D. This provides assurance that Glyclean D based formulations will have long term, regulatory sustainability.

Global Registrations

The Chemours Company provides Glyclean D regulatory support around the world. Glyclean D is registered with the U.S. EPA, and is found in formulations in Canada and many other countries around the world. Are you developing a disinfecting formulation that can be leveraged globally? Look no further than Glyclean D.Global Registrations.

Antimicrobial Activity

Mode of Action

Glyclean D utilizes its small molecular size and its dual acid – alcohol functionality to provide a multi-mode of action for microbial cell disruption. As a result of this duality of action, the development of microbial resistance is dramatically minimized.¹

Bactericidal

Glyclean D kills a very wide range of both Gram-positive and Gram-negative bacteria. Glyclean D has demonstrated efficacy against E.coli (including O157:H7), Listeria welshimeri, Pseudomonas, Salmonella, and Staphylococcus to name a few. Full EN 13697 studies are available for review.

Viricidal

Glyclean D is an effective viricidal agent as well. Various studies have demonstrated that Glyclean D is effective at killing both large and small viruses and both enveloped and non-enveloped viruses. Testing has shown efficacy against SARS-CoV-2 (the virus which causes Covid-19), Influenza type A, Rhinovirus type 37, and Herpes type 1 to name a few.

1. Simões et al. *Food Research International*, 2020, 136, 109346.



Chemours Glyclean™ D

Features

- Naturally occurring, readily biodegradable
- Attacks microorganism cell walls/membranes and disrupts essential cellular functions
- Sequesters and solubilizes multivalent metals
- Safe for designated disinfection applications
- Widely compatible with other adjuvants
- Low VOC
- Cleans and Disinfects in one step

Benefits

- Mode of action minimizes chance of organism developing resistance
- Highly effective cleaning action
- Positive profile will help assure your formulations will meet future regulations
- Easy with which to formulate
- One of nature's disinfectants
- Safer for people and the environment
- No need to pre-clean surfaces prior to disinfection

Sustainability of Glyclean D

- Chemours is the only glycolic acid supplier having or pursuing regulatory registrations globally: US EPA registration, Canada, EU BPR, GB BPR and Korean BPR
- Chemours is the only Glyclean D manufacturer that has a dedicated technical service group supporting customers with:
 - Formulation
 - Analytical
 - Regulatory
- Chemours has 90 years of experience in managing and running large volume glycolic acid process
- Chemours has a long track record of reliable supply to a wide range of customers and products.

Glyclean D Formulations

Glyclean Hard Surface Cleaner and Disinfectant

Glyclean Hard Surface Cleaner and Disinfectant has been preregistered in a number of EU countries and is available for licensing to Glyclean D customers wanting a faster and cheaper route to market in several EU countries. This formulation is also a representative product in the EU BPR dossier. Glyclean Hard Surface Cleaner and Disinfectant has been shown to kill Poliovirus, Adenovirus, and Murine Norovirus under dirty conditions with a 5 minute contact time according to protocol NF EN 14476:2013 + A2:2019.

Glyclean™ Hard Surface Cleaner and Disinfectant Formulation

11.77 wt% Glyclean™ D70E	CAS No 79-14-1
4.0 wt% Tri(propylene glycol) methyl ether	CAS No 25498-49-1
2.0 wt% 1-Octanesulfonic acid, sodium salt	CAS No 5324-84-5
1.0 wt% Sulfonic acids, C14-16-alkene, sodium salts	CAS No 68439-57-6
0.5 wt% Isodecylalcohol, ethoxylated	CAS No 61827-42-7
0.5 wt% Xylenesulfonic acid, sodium salt	CAS No 1300-72-7
Make up de-ionized water	CAS No 7732-18-5

For more information, visit glycolicacid.chemours.com.

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