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AnsellGUARDIAN<sup>®</sup> Chemical Report

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## Disclaimer

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In this report, you will find information related to the barrier performance of certain personal protective equipment (PPE) against the chemicals you selected. This information is intended to enable the Health and Safety professional at your organization make more informed decisions about the Ansell PPE that may offer the greatest protection in the intended circumstances and assist with carrying out a risk assessment for your organization.

We wish to highlight that permeation times do not equate to safe wear time. Safe wear time may vary depending on whether the PPE is donned correctly, the surrounding temperature, the chemicals' toxicity, and other factors. Permeation information offered here is limited to the main protective material. Permeation times may vary around seams, zips, visors or any other joins or components of the PPE. It is the responsibility of your organization's Health and Safety professional to undertake a risk assessment before choosing the appropriate PPE for the task at hand. If you want to discuss any aspect in detail, please contact us.

*Estimations of the barrier properties of PPE are based on currently available data and extrapolations from laboratory test results and information regarding the chemicals' composition. Synergistic effects of mixing chemicals have not been accounted for. Estimations are subject to change if new testing is carried out or new information is available providing better grounds for extrapolations. For these reasons, any information in this report is provided for informational purposes only and Ansell fully disclaims any liability including warranties related to any statement contained herein.*

## Legend for Hand Protection

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Permeation Breakthrough Times		
<10	Not Recommended	
10-30	Splash Protection	
30-60	Splash Protection	
60-120	Medium Protection	
120-240	Medium Protection	
240-480	Good Protection	
>480	Good Protection	

Permeation breakthrough time is the time (in minutes) for the chemical in question to be permeating through the material at a rate of  $1.0 \mu\text{g} / \text{cm}^2 / \text{min}$  (as per EN ISO 374) or  $0.1 \mu\text{g} / \text{cm}^2 / \text{min}$  (as per ASTM F739).

PS = Physical State: A = Aerosol, G = Gas, L = Liquid, P = Paste, S = Solid



Product Group : BUPS  
 Brand : BioClean™  
 Material : Neoprene  
 Thickness (mm) : 0.11 mm / 4.3 mil

The permeation breakthrough times present in this chart were evaluated according to the EN ISO 374 and ASTM F739 standard. Colored cells with numbers and symbol (C) correspond to experimentally determined data generated by an accredited laboratory.

CAS	Chemical Name	%	PS	EN ISO 374	ASTM F739
51-21-8	5-Fluorouracil (50 mg/ml)	5.0	L		> 480' c
64-19-7	Acetic acid	100.0	L	24' c	22' c
67-64-1	Acetone	100.0	L	2' c	2' c
75-05-8	Acetonitrile	100.0	L	4' c	4' c
1336-21-6	Ammonium hydroxide	25.0	L	24' c	23' c
154-93-8	Carmustine (3.3 mg/ml)	0.33	L		2' c
67-66-3	Chloroform	100.0	L	1' c	1' c
15663-27-1	Cisplatin (1 mg/ml)	0.1	L		> 480' c
77-92-9	Citric acid aqueous solution	10.0	L	> 480' c	> 480' c
50-18-0	Cyclophosphamide (20 mg/ml )	2.0	L		> 480' c
25316-40-9	Doxorubicin hydrochloride (2 mg/ml)	0.2	L		> 480' c
64-17-5	Ethanol	70.0	L	30' c	
33419-42-0	Etoposide (20 mg/ml)	2.0	L		> 480' c
50-00-0	Formaldehyde	37.0	L	> 480' c	
50-00-0	Formaldehyde	50.0	L	> 480' c	
111-30-8	Glutaraldehyde	50.0	L	> 480' c	> 480' c
142-82-5	Heptane	100.0	L	6' c	5' c
7647-01-0	Hydrochloric acid	37.0	L	> 480' c	446' c
7722-84-1	Hydrogen peroxide	30.0	L	> 480' c	> 480' c
67-63-0	Isopropanol	70.0	L	42' c	



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CAS	Chemical Name	%	PS	EN ISO 374	ASTM F739
59-05-2	Methotrexate (25mg/ml)	2.5	L		> 480' c
110-54-3	n-Hexane	100.0	L	6' c	6' c
7697-37-2	Nitric acid	65.0	L	40' c	38' c
7664-38-2	Phosphoric acid	85.0	L	> 480' c	> 480' c
25655-41-8	Povidone Idoine solution	10.0	L	> 480' c	> 480' c
1310-73-2	Sodium Hydroxide	40.0	L	> 480' c	
7681-52-9	Sodium Hypochlorite, aqueous solution	12.0	L	> 480' c	
7664-93-9	Sulfuric acid	96.0	L	14' c	14' c
52-24-4	thiotepa (10mg/ml )	1.0	L		48' c
108-88-3	Toluene	100.0	L	1' c	1' c
1330-20-7	Xylene, isomeric mixture	100.0	L	2' c	2' c