SHIELD Scientific
compliance comfort protection

CHEMICAL RESISTANCE GUIDE

Level 0	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
<10 min	10 - 30 min	30 - 60 min	60 - 120 min	120 - 240 min	240 - 480 min	> 480 min

SHIELDskin CHEM* NEO NITRILE* 300

PPE Personal Protective Equipment Category III REGULATION (EU) 2016/425
MDD Medical Device Class I DIRECTIVE 93/42/EEC
CE 0598
ISO 374-1 Type A AJKLNPT

- Category III PPE glove (PPE Regulation (EU) 2016/425)
- Complex Design - For mortal & irreversible risks
- Class 1 MDD glove (Council Directive 93/42/EEC)
- Powder-free red/white polychloroprene/nitrile glove
- twinSHIELD* double-walled protection
- Ambidextrous
- 300 mm / 0.31 mm (EN 420:2003+A1:2009)
- Biological risk (ISO 374-5:2016 VIRUS)
- AQL 0.25 (EN 374-2:2014 Level 3)
- Viral penetration test (ISO 16604:2004 Procedure B)
- Chemical risk (ISO 374-1:2016+A1:2018 - Type A AJKLNPT)
- Good chemical protection
- Tested for chemical permeation (EN 16523-1:2015+A1:2018)

64-19-7	Acetic acid 99%	LEVEL 3 81 min
108-24-7	Acetic anhydride	LEVEL 1 21 min
67-64-1	Acetone 99.8%	LEVEL 0 7 min
75-05-8	Acetonitrile 99.9%	LEVEL 1 20 min
10127-02-3	Acridine orange	LEVEL 6 480 min
79-06-1	Acrylamide 40%	LEVEL 6 480 min
79-10-7	Acrylic acid 99%	LEVEL 2 47 min

1336-21-6 Ammonium hydroxide 28-30%	LEVEL 4 153 min
62-53-3 Aniline 99.9%	LEVEL 2 46 min
Mixed Solution Aqua regia	LEVEL 6 480 min
71-43-2 Benzene 99%	LEVEL 0 5 min
98-11-3 Benzenesulfonic acid 20% solution in water	LEVEL 6 480 min
100-51-6 Benzyl alcohol	LEVEL 4 123 min
7726-95-6 Bromine	LEVEL 0 7 min
71-36-3 Butanol 99.4%	LEVEL 5 448 min
111-76-2 2-Butoxyethanol 99%	LEVEL 4 134 min
97-88-1 Butyl methacrylate 99.9%	LEVEL 1 22 min
75-15-0 Carbon disulfide 99.9%	LEVEL 0 1 min
56-23-5 Carbon tetrachloride	LEVEL 1 12 min
Mixed Solution Chemosil 225	LEVEL 1 11 min
Mixed Solution Chemosil 211	LEVEL 1 14 min

79-11-8
Chloroacetic acid 80%
LEVEL 5
260 min

67-66-3
Chloroform 99.8%
LEVEL 0
4 min

77-92-9
Citric acid 30%
LEVEL 6
480 min

548-62-9
Crystal violet
LEVEL 6
480 min

110-82-7
Cyclohexane
LEVEL 6
480 min

108-94-1
Cyclohexanone 99%
LEVEL 1
24 min

66-81-9
Cycloheximide
LEVEL 6
480 min

91-95-2
Diaminobenzidine
LEVEL 6
480 min

79-43-6
Dichloroacetic acid 99%
LEVEL 3
80 min

107-06-2
1,2-Dichloroethane 99%
LEVEL 0
5 min

75-09-2
Dichloromethane 99%
LEVEL 0
2 min

68334-30-5
Diesel fuel
LEVEL 5
304 min

109-89-7
Diethylamine 99.5%
LEVEL 0
3 min

111-96-6
Diethylene glycol dimethyl ether 99%
LEVEL 1
19 min

60-29-7
Diethyl ether 99%
LEVEL 0
6 min

108-20-3
Diisopropyl ether 99%
LEVEL 1
29 min

7087-68-5
Diisopropyl ethylamine 99%
LEVEL 5
322 min

127-19-5
Dimethyl acetamide 99%
LEVEL 1
14 min

616-38-6
Dimethyl carbonate 99%
LEVEL 1
13 min

68-12-2
Dimethyl formamide 99%
LEVEL 0
9 min

67-68-5
Dimethyl sulfoxide 99% (DMSO)
LEVEL 4
179 min

123-91-1
Dioxane 99%
LEVEL 1
10 min

64-17-5
Ethanol 99.8%
LEVEL 4
154 min

1239-45-8
Ethidium bromide 5%
LEVEL 6
480 min

141-78-6
Ethyl acetate 99.8%
LEVEL 0
5 min

107-15-3
Ethylene diamine 99%
LEVEL 2
50 min

Mixed Solution
Euro 95 unleaded petrol
LEVEL 1
16 min

314-13-6
Evans blue
LEVEL 6
480 min

50-00-0 Formaldehyde 10%	LEVEL 6 480 min
50-00-0 Formaldehyde 37%	LEVEL 6 480 min
64-18-6 Formic acid 98.5%	LEVEL 4 125 min
111-30-8 Glutaraldehyde 25%	LEVEL 6 480 min
50-01-1 Guanidine hydrochloride	LEVEL 6 480 min
999-97-3 Hexamethyldisilizan 99%	LEVEL 6 480 min
Mixed Solution Hydranal ® -Composite 2	LEVEL 6 480 min
7803-57-8 Hydrazine monohydrate 80%	LEVEL 6 480 min
7803-57-8 Hydrazine monohydrate 98%	LEVEL 6 480 min
7647-01-0 Hydrochloric acid 37%	LEVEL 6 480 min
7664-39-3 Hydrofluoric acid 48%	LEVEL 4 168 min
7664-39-3 Hydrofluoric acid 60%	LEVEL 2 42 min
7722-84-1 Hydrogen peroxide 30%	LEVEL 6 480 min
7722-84-1 Hydrogen peroxide 12%	LEVEL 6 480 min

78-83-1 Isobutanol 99%	LEVEL 6 480 min
540-84-1 Iso-Octane 99%	LEVEL 6 480 min
4098-71-9 Isophorone diisocyanate 100%	LEVEL 6 480 min
67-63-0 Isopropanol 100%	LEVEL 6 480 min
67-63-0 Isopropanol 70%	LEVEL 6 480 min
Mixed Solution LiPF6	LEVEL 6 480 min
7550-35-8 Lithium bromide 30%	LEVEL 6 480 min
108-39-4 m-Cresol 98.5%	LEVEL 4 212 min
60-24-2 2-Mercaptoethanol 99%	LEVEL 3 63 min
67-56-1 Methanol 99.9%	LEVEL 2 36 min
109-86-4 Methoxyethanol	LEVEL 2 49 min
107-98-2 1-Methoxy-2-propanol 99%	LEVEL 3 72 min
5332-73-0 3-Methoxypropylamine 99%	LEVEL 0 7 min
37143-54-7 1-Methoxy-2-propylamine 95%	LEVEL 1 12 min

108-87-2
Methylcyclohexane 99.9%
LEVEL 2
58 min

78-93-3
Methyl ethyl ketone 99%
LEVEL 0
2 min

108-10-1
Methyl Isobutyl Ketone 99%
LEVEL 0
8 min

80-62-6
Methyl Methacrylate 99%
LEVEL 0
8 min

75-65-0
2-methyl-2-propanol 99.5%
LEVEL 6
480 min

1634-04-4
Methyl Tert Butyl Esther (MTBE)
LEVEL 1
14 min

96-47-9
2-Methyltetrahydrofuran 99.9%
LEVEL 0
4 min

Mixed Solution
Mucocit®-T branded mixture
LEVEL 6
480 min

142-82-5
n-Heptane 99%
LEVEL 2
37 min

110-54-3
n-Hexane 95%
LEVEL 4
138 min

7697-37-2
Nitric Acid 70%
LEVEL 4
122 min

7697-37-2
Nitric acid 99%
LEVEL 0
2 min

872-50-4
N-methyl-2-pyrrolidone
LEVEL 2
43 min

109-66-0
n-Pentane 98%
LEVEL 2
45 min

71-23-8 n-Propanol	LEVEL 5 304 min
79-37-8 Oxalyl chloride	LEVEL 0 1 min
7601-90-3 Perchloric acid 70%	LEVEL 6 480 min
64742-49-0 Petroleum benzene 80-100°C	LEVEL 6 480 min
108-95-2 Phenol 50%	LEVEL 4 163 min
108-95-2 Phenol 85%	LEVEL 4 138 min
Mixed Solution Phenol:Chloroform Isoamyl Alcohol 25:24:1	LEVEL 0 9 min
108-95-2 Phenol 0.1% solution	LEVEL 6 480 min
7664-38-2 Phosphoric Acid 30%	LEVEL 6 480 min
7664-38-2 Phosphoric acid 85%	LEVEL 6 480 min
3761-53-3 Ponceau 2R	LEVEL 6 480 min
6226-79-5 Ponceau S	LEVEL 6 480 min
1310-58-3 Potassium Hydroxide 40%	LEVEL 6 480 min
123-38-6 Propionaldehyde 97%	LEVEL 0 2 min

75-56-9 Propylene oxide 99%	LEVEL 0 2 min
110-86-1 Pyridine	LEVEL 0 6 min
598-75-4 Secondary isoamyl alcohol 98%	LEVEL 6 480 min
127-09-3 Sodium acetate Sat. solution	LEVEL 6 480 min
1310-73-2 Sodium Hydroxide 40%	LEVEL 6 480 min
1310-73-2 Sodium Hydroxide 50%	LEVEL 6 480 min
7681-52-9 Sodium Hypochlorite 13%	LEVEL 6 480 min
100-42-5 Styrene 99.9%	LEVEL 0 5 min
7664-93-9 Sulphuric Acid 10%	LEVEL 6 480 min
7664-93-9 Sulphuric Acid 95%-98%	LEVEL 2 59 min
7664-93-9 Sulphuric Acid 50%	LEVEL 6 480 min
127-18-4 Tetrachloroethylene 99%	LEVEL 1 10 min
109-99-9 Tetrahydrofuran 99.9%	LEVEL 0 1 min
75-59-2 Tetramethylammonium hydroxide 2.5%	LEVEL 6 480 min

108-88-3 Toluene 99.9%	LEVEL 0 4 min
584-84-9 Toluene diisocyanate 95%	LEVEL 0 0 min
76-03-9 Trichloroacetic acid 10%	LEVEL 6 480 min
121-44-8 Triethylamine 99%	LEVEL 2 37 min
76-05-1 Trifluoroacetic acid 99%	LEVEL 2 57 min
95-63-6 1,2,4- Trimethylbenzene 98%	LEVEL 1 21 min
108-67-8 1,3,5-Trimethylbenzene 98%	LEVEL 1 19 min
77-86-1 Tris (hydroxymethyl) aminomethane Sat. solution	LEVEL 6 480 min
72-57-1 Trypan blue	LEVEL 6 480 min
1330-20-7 Xylene 98.5%	LEVEL 0 8 min

DISCLAIMER: The data provided was based on gloves tested under laboratory conditions, in accordance with EN 16523-1:2015 (formerly EN 374-3:2003) and EN 374-4:2013. The information is for guidance only and may not reflect the user's application. A risk assessment should always be made by purchaser to assess the suitability of gloves for a specific application.

Distributed by Industrial Scientific which is a division of Camlab Ltd

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