

| Chemicals<br>(Synonyms)                                      | CAS-<br>Number | LLG-Glove<br><i>ergo</i> | LLG-Glove<br><i>standard</i> | LLG-Glove<br><i>standard long</i> | LLG-Glove<br><i>strong</i> |
|--------------------------------------------------------------|----------------|--------------------------|------------------------------|-----------------------------------|----------------------------|
| Acetic acid (10 %)                                           | 64-19-7        | Level 3                  | Level 5                      | Level 4                           | n.t.                       |
| Acetone (2-Propanone, Methyl Ketone)                         | 67-64-1        | x                        | x                            | x                                 | x                          |
| Acetonitrile (Cyanomethane, Ethyl nitrile)                   | 75-05-8        | x                        | x                            | x                                 | x                          |
| Acryl amide (40 %)                                           | 79-06-1        | Level 6                  | Level 6                      | Level 6                           | Level 6                    |
| Ammonium hydroxide (25 %)                                    | 1336-21-6      | A                        | Level 1                      | Level 1                           | Level 1                    |
| Benzalconiumchloride liquid (Quats)                          | 63449-41-2     | n.t.                     | n.t.                         | n.t.                              | n.t.                       |
| Chlorhexidindigluconat (0,5 %)                               | 18472-51-0     | Level 6                  | n.t.                         | n.t.                              | n.t.                       |
| Chloroform (Trichloromethane)                                | 67-66-3        | x                        | x                            | x                                 | x                          |
| Dichloromethane (Methylene chloride, Freon 30)               | 75-09-2        | x                        | x                            | x                                 | x                          |
| Diethyl amine (DEA)                                          | 109-89-7       | x                        | x                            | x                                 | x                          |
| Diethyl ether (Diethyloxyde, Ethoxyethane)                   | 60-29-7        | x                        | x                            | x                                 | x                          |
| Dimethylsulfoxide DMSO (Deltan, Demasorb)                    | 67-68-5        | x                        | x                            | x                                 | x                          |
| Ethanol (10 %), (Ethyl alcohol)                              | 64-17-5        | n.t.                     | n.t.                         | n.t.                              | n.t.                       |
| Ethanol (20 %), (Ethyl alcohol)                              | 64-17-5        | Level 1                  | Level 6                      | Level 1                           | Level 6                    |
| Ethanol (70 %), (Ethyl alcohol)                              | 64-17-5        | x                        | A                            | A                                 | Level 3                    |
| Ethidium bromide (1 %), (Homidium bromide)                   | 1239-45-8      | Level 6                  | Level 6                      | Level 6                           | Level 6                    |
| Ethyl acetate (Acetic acid ether)                            | 141-78-6       | x                        | x                            | x                                 | n.t.                       |
| Fentanyl Citrate Inj. (100 µg/2 ml)                          |                | Level 5                  | n.t.                         | n.t.                              | n.t.                       |
| Formaldehyde (37 %), (Formalin, Methyl aldehyde)             | 50-00-0        | Level 6                  | Level 6                      | Level 6                           | Level 6                    |
| Gasoline (Petrol, heavy, bp 150 -190 °C)                     | 8032-32-4      | x                        | x                            | x                                 | x                          |
| Glutaraldehyde (5 %), (Pentan-1,5- dial, Glutaral)           | 111-30-8       | Level 6                  | Level 6                      | Level 6                           | Level 6                    |
| Heptane - n                                                  | 142-82-5       | x                        | x                            | x                                 | n.t.                       |
| Hexane - n                                                   | 110-54-3       | x                        | A                            | A                                 | n.t.                       |
| Hydrochloric acid (10 %), (Muriatic acid, Chlorohydric acid) | 7647-01-0      | n.t.                     | n.t.                         | n.t.                              | Level 6                    |
| Hydrochloric acid (36 %), (Muriatic acid, Chlorohydric acid) | 7647-01-0      | A                        | n.t.                         | n.t.                              | Level 6                    |
| Hydrofluoric acid (40 %)                                     | 7664-39-3      | n.t.                     | A                            | A                                 | A                          |
| Hydrogen peroxide (30 %)                                     | 7722-84-1      | Level 6                  | Level 6                      | Level 6                           | Level 6                    |
| Isopropyl alcohol (40 %), (2-Propanol, Isopropanol, IPA)     | 67-63-0        | n.t.                     | Level 6                      | Level 6                           | n.t.                       |
| Isopropyl alcohol (70 %), (2-Propanol, Isopropanol, IPA)     | 67-63-0        | A                        | Level 3                      | Level 3                           | Level 6                    |
| Methanol (5 %), (Methyl alcohol)                             | 67-56-1        | n.t.                     | Level 6                      | Level 6                           | n.t.                       |
| Methanol (99 %), (Methyl alcohol)                            | 67-56-1        | x                        | x                            | x                                 | x                          |
| Methylmethacrylate (MMA)                                     | 80-62-6        | n.t.                     | n.t.                         | n.t.                              | n.t.                       |
| Ninhydrin (0,2 %)                                            | 485-47-2       | n.t.                     | n.t.                         | n.t.                              | n.t.                       |
| Nitric acid (10 %)                                           | 7697-37-2      | n.t.                     | Level 5                      | Level 6                           | Level 6                    |
| Nitric acid (36 %)                                           | 7697-37-2      | n.t.                     | Level 3                      | Level 3                           | n.t.                       |
| Octenidin (0,1 %)                                            | 71251-02-0     | n.t.                     | n.t.                         | n.t.                              | n.t.                       |
| Phenol (10 %)                                                | 108-95-2       | x                        | x                            | x                                 | n.t.                       |
| Phosphoric acid (85 %), (orthophosphoric acid)               | 7664-38-2      | n.t.                     | n.t.                         | n.t.                              | n.t.                       |
| Potassium hydroxide (50 %), (Caustic potash, lye)            | 1310-58-3      | n.t.                     | n.t.                         | n.t.                              | n.t.                       |
| Povidone iodine (10 %)                                       | 25655-41-8     | n.t.                     | n.t.                         | n.t.                              | n.t.                       |
| Sodium hydroxide (40 %), (Caustic soda, Lye, White caustic)  | 1310-73-2      | Level 6                  | Level 6                      | Level 6                           | Level 6                    |
| Sodium hypochlorite (10 %)                                   | 7681-52-9      | n.t.                     | n.t.                         | n.t.                              | n.t.                       |
| Sulphuric acid (30 %), (Vitriol)                             | 7664-93-9      | n.t.                     | n.t.                         | n.t.                              | n.t.                       |
| Sulphuric acid (96 %), (Vitriol)                             | 7664-93-9      | A                        | A                            | Level 1                           | A                          |
| Toluene (Methylbenzol, Toluol, Phenylmethane)                | 108-88-3       | x                        | x                            | x                                 | x                          |
| Trichlorethane (Methyltrichloromethane)                      | 71-55-6        | x                        | x                            | x                                 | x                          |
| Xylene (Dimethylbenzene, Xylol)                              | 95-47-6        | x                        | x                            | x                                 | x                          |

**X not recommended**

**A for splash contact recommended – change glove immediately after contact**

**Level 1 for short contact up to 30 min recommended**

**Level 2 for contact up to 60 min recommended**

**Level 3 for contact up to 120 min recommended**

**Level 4 for contact up to 240 min recommended**

**Level 5 for contact up to 480 min recommended**

**Level 6 for contact longer than 480 min recommended**

**n.t. - not tested / no information available**

**Disclaimer:** LLG wants to state that the values for the permeation levels for all LLG-Labware gloves are based on tests performed in laboratory under fixed conditions and cannot reflect all actual "in use"-circumstances. As a rule, tests and certificates can only be regarded as general information and will not discharge the user from his duty to make sure, before the first use, that the glove will correspond to his actual protection needs. When working with materials harmful to the skin, before starting to work please always check the glove for any defects. Recommendation on chemical resistance is not part of the specification. If there is any doubt please ask your supplier.