A LITTLE bit of theory!

Penetration
What is meant with penetration, is the leaking of chemicals through a glove be means of holes in the glove material. Even microscopic holes allow chemicals to travel through a glove. KCL gloves undergo a 100% inspection therefore providing you, the glove user, with maximum safety.

Penetration: chemicals travelling through holes in a glove

Permeation
By permeation, chemicals diffuse and permeate unnoticed through gloves surfaces. Even without obvious damage, a glove could be useless long before it is discarded.

Permeation: different chemical substances travel through a glove and it’s undamaged material in different lengths of time

Questions and answers

Why shouldn’t I wear leather gloves?
Leather gloves very frequently have a poor fit, uncomfortable seams, allow moisture and chemicals to be absorbed and permeate and often contain Chrome VI (carcinogenic) as well as PCB’s from the tanning process used in manufacturing leather hides. Nitrile gloves are more durable than leather gloves, available in several sizes and last longer, while giving better protection. Nitrile gloves are also water resistant, washable and free of hazardous substances (Oko-tex standard 100).

Are the effects of chemicals immediately noticeable on the skin?
There are numbers of cancer causing and genetically harmful chemicals that you cannot taste or smell, but which are absorbed into the body. Frequently symptoms appear years or even decades later. See the example under point 3 (Category III).

Why are PVC gloves not appropriate for use with chemicals?
PVC gloves contain softeners, which can cause skin irritation. These softeners can also be rinsed out of a glove when working with chemicals, which can cause microscopic holes. PVC gloves also are frequently produced in third world countries under poor quality management conditions. Also due to the manufacturing process, chemicals can wick through to the inner surface of the glove though the hairs of the cotton liner base, if exposed.

How do I as a glove user know, that I am using the right quality glove?
Look into your KCL glove plan or ask your safety officer. To be on the safe side check the labelling on your glove and when working with chemicals do not use your gloves longer than the maximum usage time as determined by the KCL laboratory. When in doubt, talk to your safety advisor or call the KCL Hotline at +49 6659 87 300.

When should gloves be changed?
- For hygienic reasons at least every five days.
- For mechanical (Cat. II) gloves, after a glove has been damaged, or when heavily soiled (without chemical contact) and washing no longer improves the condition of the gloves. Many of KCL’s high quality gloves can be washed, particularly our Para-aramide cut resistant gloves.
- Chemical gloves should be disposed of immediately when damaged, after chemical contact when used as splash protection, or by full contact when the KCL recommended usage time has been reached.

Notes on use and care

5 steps to using your protective gloves properly
We have developed a pocket guide to demonstrate the proper use of your KCL gloves for you to keep near you in your work place. All the important tips for using protective gloves are highlighted here.

If our information leaflet „5 steps...“ is no longer attached, please request a further copy by calling our hotline +49 6659 87 300.
RISK OF INJURIES BY IMPROPER USE OF PROTECTIVE GLOVES

WE TAKE CARE OF YOUR HANDS!

There are good reasons why protective gloves and chemical gloves should be worn wherever they are required. There are many injuries that can occur from improper or complete lack of use of protective gloves. These can be cuts, punctures, abrasions, dermatitis, allergies or burns (chemical & thermal), even long term systemic effects can result from regular contact with chemicals. The long term effects of increased levels of harmful chemicals carried in blood and internal organs can lead to severe consequences for your health.

PROFESSIONAL HAND PROTECTION WITH CERTIFIED SAFETY

The gloves offered by KCL for almost every need can provide reliable protection against such risks. KCL’s own in house laboratory is constantly testing the mechanical and chemical resistance of KCL gloves according to DIN ISO 9001. Plant tours are conducted in close cooperation with end user companies, and the resulting risk hazard assessments used to develop glove plans, which define recommended gloves and usage times for each work place. Afterwards, the glove users and safety offices are then trained on hand protection. The work places and the defined gloves are then reviewed on an annual basis.

Together with your safety officer KCL will help you, find the right gloves for your site specific tasks. A unique KCL glove plan is then made specifically for your company and each individual work place.

DETERMINING THE RIGHT GLOVE AND IT’S PROPER USE

Hazard categories

A quick glance at the labelling of a KCL glove tells you many important things. One of these being the hazard category for the gloves intended use.

Example of a glove plan created by a customer with KCL - the categorisation and allocation to specific tasks can be seen in the glove plan as well as the level of protection for chemical protective gloves for tested chemicals.

The right glove for your work place can be seen in the glove plan. If this not the case or if questions arise, then speak to your safety officer who will inform you, which glove is the right glove to use.

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The three hazard categories, labelling of protective gloves and every day examples

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Determining the right glove and it’s proper use

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