What to do when a Chemical Guardian chart mentions 'No data' for a chemical?

The Chemical Guardian database gathers information on the chemical resistance of Ansell chemical protective gloves. Our database contains permeation/degradation test results and estimations.

What are chemical estimations based on?

When a new chemical is entered in our database, the Chemical Guardian will then try to evaluate the chemical resistance of our gloves against this compound. The Chemical Guardian team will either:

- Try to find a similar chemical in the database to perform comparisons between these chemicals - chemical structures and properties are compared so that the chemical performance of our gloves can be assessed.

  AND/OR

- Try to find external materials (articles, books) that assess the chemical resistance of polymer materials against this new chemical.

However, if no similar chemical or external sources are found to evaluate the chemical resistance of our gloves, the Chemical Guardian team won't be able to state any precise permeation time or degradation rating. Instead, the remark 'No data' will be added in your Chemical Guardian report for this precise chemical.

What gloves can be tried out if 'No data' is mentioned for the chemical?

Caution should be used when trying out gloves. Tests should always be performed prior to directly using a glove in the application, to verify that the glove indeed resists the chemical compound and that no chemical is passing through the glove during the usage time.

As a general assessment, nitrile material corresponds to a good chemical resistant material, which provides a better chemical resistance than natural rubber latex or PVC for example. Solvex® or AlphaTec® gloves could therefore be considered as potential gloves to test to verify whether they indeed resist the chemical.

However, if the chemical passes through the nitrile material during the tests, a higher chemical protective glove, such as the Barrier® glove, can be considered and tested instead. The Barrier® glove indeed provides a protection against a very large range of chemicals and is considered as highly chemical protective for this reason.

Please note well that these recommendations are global and general ones, and that any glove should be tested in practice to verify its practical suitability against the chemical at hand. The precise application and conditions of use should also be considered while performing a risk assessment and choosing an appropriate glove.

Recommendations made in this note are based on extrapolations from laboratory test results and information regarding the composition of chemicals and may not adequately represent specific conditions of end use. Synergistic effects of mixing chemicals have not been accounted for. For these reasons, and because Ansell has no detailed knowledge of or control over the conditions of end use, any recommendation must be advisory only and Ansell fully disclaims any liability including warranties related to any statement contained herein.