

PermaSURE[®] For ChemMAX 3

The key question for users of hazardous chemical suits is “How long am I safe?”

Think commonly provided permeation test data is an effective way to answer this question?

Think a “breakthrough” of >480 minutes means no chemical has “broken through” in 480 minutes?

Then think again...

There are known problems with Permeation Test data:-

- **It is unlikely to be accurate.** Even the test standard (EN 6529) acknowledges large variations in test results between different test houses (see Annex B in the standard).
- **It is widely misinterpreted.** The “breakthrough” time is NOT the point at which a chemical “breaks through”. In fact at quoted “breakthrough” one certainty that *the chemical has already been permeating for some time...*
- **All tests are conducted at 21°C(+/-5°).** Yet it is known that temperature affects permeation... the higher the temperature the faster permeation occurs – and body temperature is 37°C...
- **It ignores the key factors...** How much of the chemical will cause harm (i.e. its toxicity threshold)? And how much has actually permeated in a specific exposure timeframe?

The fact is, permeation test data is likely to be inaccurate and in reality tells users almost nothing about how long they are safe.

So how can you answer that key question?

PermaSure is a new on-line toxicity modeller for ChemMAX 3 coveralls from Lakeland.

- It uses scientifically established mathematical permeation modelling to predict permeation rates according to specific user-input operational parameters.
- It compares permeation with published toxicity thresholds for over 2000 chemicals to indicate whether the time to reach the chemical's toxicity threshold is greater or less than the exposure time
- It works on any browser-enabled device (laptop, tablet or smart-phone) to provide an instant answer to the question “How Long am I Safe?”.

Why you need to know about PermaSure



The PermaSure Toxicity Modeller for ChemMAX 3 is unlike anything currently available.

It represents a quantum leap forward in chemical hazard risk assessment and protection.

It is instant, easy to use either on-site or in your office, and has the potential to dramatically enhance risk assessment records and user safety whilst improving adherence to your duty of care responsibilities and corporate governance.

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