



What is KemRisk®?

KemRisk is a web based chemical information system. The only requirement is a computer with standard software with an Internet connection. KemRisk is a Trade Mark covering several functions which is described here.

KemRisk ties realities together

For *managers* selling is of utmost importance. The *buyers of chemicals* want as harmless products as possible. The *users* need easy ways to create labels for different purposes. *Transporters* need to know transport information. *Administrators* should rapidly be able to answer questions from authorities, customers etc. The demands from *authorities* are based on laws and other regulations which are based on scientific knowledge about chemicals and their hazards for humans and for the environment.

Information about chemicals is dynamic

The knowledge about chemicals and their hazards is currently increasing and regulations are rapidly changing adapting to current knowledge. Antivenena does not rely on second-hand information. Safety data sheets may be unreliable and, if no official classification is available, we evaluate information from several sources in order to make our database as reliable as possible. The new harmonised classification system, GHS/CLP, is already included in KemRisk.

The right person for the right job

1. All information about the properties and hazards of chemicals are registered at Antivenena by *qualified chemists* with a full knowledge about the current regulations regarding chemicals.
2. *The managers* have the best knowledge regarding commercial considerations as well as the organisation structure of the company or institute, and also whom to assign appropriate tasks.
3. The *department head* knows best the how, when and who regarding the registration of chemicals and which functions in KemRisk is needed for each task.
4. *Those working with chemicals* know best which chemicals are located where and its quantities, and how they are used, handled and consumed.

Advanced authorisation system

The top of the authorisation system is the *quality manager* who then assigns selected privileges within the organisation (company, institute etc.). The *head of a department* should have privileges necessary for the management of the department, including being able to assign selected privileges to the personnel. Everybody can, *without login*, access all information necessary for safe handling of the chemicals.

The information system is based on the principle *the most important first* and for that reason safety data sheets are not immediately displayed, but only a summary containing the most important hazards. Additional information e.g. *first aid*, is displayed on demand by a mouse click. *Directions for use, literature references* and *safety data sheets* etc. are also displayed similarly. Where appropriate more than one safety data sheet per product may be displayed.

Input data, output reports, and inventory procedures need login. The software only displays those functions that the specific user has access to. By default a user can only access data from the *own department* but the manager can open for access between departments.

Change language

KemRisk by default uses the language decided by the manager, but the user is free to use other languages.

Making safety data sheet

All information needed in order to create a safety data sheet is included in the database. The software contains all algorithms needed to calculate the hazards for mixtures.

First the user enters commercial facts, i.e. *the name of the product*, its *intended use* etc. Then all *ingredients* and *concentrations* are registered. If necessary the program calculates the concentration from the *description of the manufacture*.

Some facts may be *trade secrets* but in this phase the user must be *completely honest* to the program. This is a pre-requisite for the appropriate calculation of the hazards. In the next step, however, the program converts this exact information to a concentration range used in the printed version. The program also knows if any component can be hidden and in that case the user can hide it.

The user now can put in other information needed for the appropriate classification of the product or otherwise necessary in the safety data sheet. Where possible, KemRisk displays a suggestion, e.g. for the flash point. The software knows which facts are obligatory and which are not.

The calculated hazard classifications are displayed graphically facilitating the reverse process, i.e. the important work of *developing less hazardous* products. Finally, the user register other information, especially commercial facts i.e. *patent numbers*, *package information*, *trade marks* and *recycling*. In this section the user is free to add any extra information he/she wants into the safety data sheet.

Several layout alternatives

The resulting PDF file can be examined, predominantly regarding commercial considerations. modifications are possible *within the limits allowed by the regulations*. Several layout alternatives can be chosen, as well as document parameters of the PDF file.

Attest and linking

When the user is satisfied with the safety data sheet he can *attest* it and *distribute it to customers*. No modifications can be done after attesting, but new editions can be generated by making an editable copy in the same or another language. The edition history is added according to current regulations regarding safety data sheets.

At this stage the document is not public, but the user can transfer it into a public location. KemRisk can also update links in the user's product pages.

Safety data sheets in other languages

KemRisk consequently separates facts and the words describing these facts and therefore translation is simply done by changing the language parameter. This is done in *less than one minute*.

Contact

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