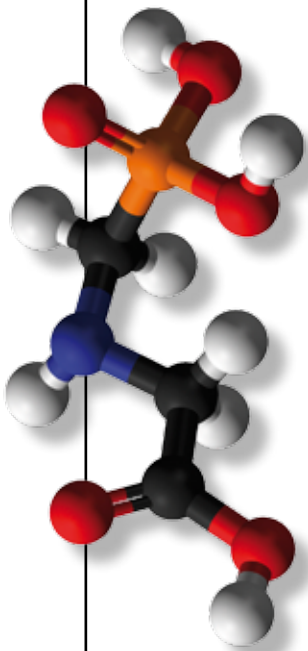


## International reach through local focus



### Toxicological evaluations are central to all chemical regulatory programmes i.e. REACH, 91/414, & Biocides Directive



At APC our expert toxicologists provide a full and extensive service. We are experienced in conducting and preparing full and in-depth or summary mammalian toxicological hazard and risk assessments for a range of EU and International Regulatory programmes (91/414, REACH, Biocides, OECD, MSDS, etc). Our team ensures any 'new' commissioned studies comply with appropriate regulatory guidance. Conducted within deadlines to high standards, we save time and costs while respecting animal welfare.

We will search extensive data bases for published material and evaluate this scientific literature for its strengths, weaknesses and relevance in the evaluation of human health hazards & risks, for both guideline and non-guideline studies. From this available research, we can determine the most appropriate **NOELs**, **LOEL**, **NOELS** and use these figures to derive valid, justifiable **ADI**, **AOELs** and Acute Reference Dose (**ARfD**) values for use in subsequent risk assessments. This range of human exposure scenarios includes occupational exposure, operator exposure, bystander exposure, consumer exposure or exposure via the environment.



our team provides a complete service for the plant protection, biocide & chemical industries

APC toxicologists help provide critical evaluations and assessments for suitability and validity of proposed studies and/or existing documentation on either animal or human studies for the evaluation of hazard and risk. These are presented in the appropriate format for submission in the required member state.



Along with recommendations and interpretations of alternative animal testing, APC help provide Scientific Justifications, **QSAR's** and read-across of toxicological data between suitable related chemicals, in order to fill data gaps and reduce animal testing. These proposals support any information gaps in lieu of studies and if appropriate, on a case by case basis, we will liaise with relevant regulatory authorities to discuss any potential deviations or exemptions and work with them to try to ensure a pragmatic regulatory strategy tailored to the clients needs.

We provide advice regarding protocol design for required animal testing, including liaison with test houses; to negotiate competitive quotes for best quality 'new' animal studies as required and to ensure appropriate testing strategies and protocols are respected.

### **Impact of changing legislation**

*Toxicology, and its role in human risk assessment, is changing as a consequence of amendments in European legislation. The revision of Directive 91/414/EEC will result in changes to some current toxicology criteria. However, no change has been made to the proposed hazard based assessments for Category 1 and 2 carcinogens, mutagens and reproductive toxins, which will not be approved under the new regulations. APC toxicologists always keep abreast of such developments and continue to provide the client with informed opinion.*



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or find our nearest office on [www.apc.eu.com](http://www.apc.eu.com)