



## PRODUCT SAFETY AND ENVIRONMENTAL RISK

Ensuring chemical regulatory compliance worldwide

Every day, people all over the world eat food, take medicines and use technology. The health and environmental impacts of these products have become a visible part of public agenda. Hence, it is imperative that the safety of these products is ensured at all phases – from production to final use. To do this, manufacturers of all kinds of products – ranging from chemicals and pharmaceuticals to food – have to mandatorily consider all necessary safety and legislative requirements.

The documentation of environmental and health impacts not only fulfil a company’s legal obligations, but also add value to its branding.

### THE CHALLENGES

- Documenting safe food, industrial and consumer products
- Assessing the effect of new technologies such as nanotechnology
- Meeting dynamic and rigorous regulatory requirements
- Evaluating environmental impacts

### OUR APPROACH

At DHI, we possess an extensive knowledge base related to chemicals regulations worldwide, with respect to product safety. Moreover, we have an established network of contacts with national authorities on worldwide markets. We are therefore well placed to support you efficiently in bringing your products to the market. We can effectively help you to fulfil regulation and instruction requirements as well as standards and local labelling. For pharmaceutical products, we can help you develop strategies as well as monitor and interpret experimental studies.

### OUR SOLUTIONS

- Expertise and IT solutions for global regulatory requirements (including REACH, GHS/CLP and Safety Data Sheets)
- In-depth knowledge of human toxicology and ecotoxicology
- Ecotoxicological testing in compliance with OECD guidelines
- Risk and exposure assessments
- Global Product Stewardship

### THE ULTIMATE GOAL

SAFE AND MARKETABLE PRODUCTS

## OUR EXPERTISE

### CHEMICALS AND REGULATORY COMPLIANCE

Placing chemical products on the market requires an extensive knowledge of global legal requirements. We can help with this. We have access to information on chemicals regulation in more than 45 global markets covering EU, USA, Canada and Asia-Pacific. We also have extensive knowledge with respect to classification, labelling and documentation. Our services in the field include:

- chemicals regulation worldwide, including REACH
- supply chain and hazard communication
- biocides — notification and documentation
- data and test strategies

### LIFE SCIENCE AND HUMAN HEALTH

Products related to life science and human health are regulated by specific standards at all stages of their life cycle. We have the requisite expertise in the health and environmental aspects of the development, manufacturing, registration and marketing of these products. We can support you in:

- food and feed safety
- cosmetics and consumer products
- medical devices
- pharmaceuticals

### ENVIRONMENTAL RISK ASSESSMENT

We provide a wide range of services to ensure the environmental safety of your products and technologies. Our ecotoxicological studies help us to provide reliable risk assessment and document environmental regulatory compliance. Our services include:

- ecotoxicological laboratory tests
- REACH and chemical exposure
- OSPAR Convention and offshore chemicals
- EMA-compliant testing of pharmaceuticals
- type approval testing of ballast water management systems

“ More than 143,000 chemicals used in industry impact both humans and the environment

## CASE STORIES



Working with the University of Copenhagen, we used our strong competencies in mathematical modelling and microbiology to develop the modelling software 'FoodMathModel'. With this tool, food producers can predict the growth of the bacteria *Listeria monocytogenes* in soft white blue cheese. This enables them to document food safety with respect to these bacteria in their products — in lesser time.



The polymer coating firm Acccoat uses Chromic acid in its polymer coating products. Although Chromic acid usage is not currently specifically regulated, it is a substance of very high concern, with respect to health, safety and environmental risk. As such, its use may require authorisation in the future. After thorough consultation, we established that Acccoat will have a good chance to find an alternative solution and phase out the use of Chromic acid before such authorisation becomes mandatory.



The technology company DELTA developed a new technology platform used in ePatch — a group of medical devices which measure bio-signals through the skin. We performed the biological safety profile on the entire product portfolio. This helped DELTA in registering the ePatch devices successfully with the competent authorities. Furthermore, our evaluation forms the basis for a possible CE marking of the ePatch — allowing free marketing of the product within the European Economic Area.

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