

# TOXICOLOGICAL RISK ASSESSMENT FOR PRODUCTS

## PUBLIC

- Project managers, engineers, senior technicians, technicians in the food, pharmaceutical, cosmetic and packaging industries.
- Depending on how the public is made up, the training can be concentrated more scientifically on a particular aspect of the evaluation of the toxicological risk.

**DURATION**  
2 days

**TIMES**  
9:00 - 17:30

**COST PER TRAINEE**  
1600 €

## AIMS

- To understand the various aspects of the problem of toxicological safety of products.
- To have a technical and regulatory referential that provides an understanding of the methodological choices in the approach.
- To be able to understand the development and conclusions of a toxicological study report on the product.

## TEACHING RESOURCES

- The training combines theoretical explanations and practical discussions
- Expositions are based on the experiences of those involved
- A document listing all the training supports is provided



## PROGRAMME

### Origin and definitions

#### General toxicological

- Origin of toxins and action sites
- Topical action mechanisms
- Systemic action mechanisms
- Main categories of toxic effects

#### Toxicokinetics

- Dose-effect relation and bioavailability
- Variation factors
- Toxic parameters linked to the agent
- Toxic parameters linked to conditions of use
- Ways of metabolising toxins

#### Biological risk

- Risk linked to live germs
- Risk linked to endotoxins and exotoxins

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## **Chemical risk**

- Toxicological data files
- Exposure evaluation parameters
- Behaviour of toxins within the environment
- Toxicological reference values

## **Radiotoxicity**

## **Genotoxicity and foetotoxicity**

## **Ecotoxicity**

## **Biocompatibility and interactions between container and content**

## **Method of evaluating toxicological risk**

- Regulatory sources and specialist commissions
- Regulatory context specific to products
- Risk analysis
- Regulatory referential for toxicity evaluation methods
- Limits of methods and new approaches