



**Chemical Hazards
Communication Society**

***Module 53
Risk Characterisation and The Chemical
Safety Report***



**For [date and venue](#)
please see that section
of this web-site**

**Registration 09.00
Start 09.30
Close 16.30**

MODULE 53 – RISK CHARACTERISATION AND THE CHEMICAL SAFETY REPORT

Under good practice for Product Stewardship and to meet proposed requirements under REACH, it is necessary to make an assessment of risk for known uses of materials being supplied. The SDS is the primary tool for communication, but it needs to be a fairly broad generic document to cover a range of known uses. Good product stewardship means that risks associated with these known uses have been considered. Under REACH there is greater emphasis on this with requirements to prepare a Chemical Safety Assessment (CSA) and the overview risk assessment summary document known as a 'Chemical Safety Report' (CSR).

This one-day course aims to cover the basic principles of chemical safety assessment and the proposed REACH Chemical Safety Report, dealing mainly with the technical concepts and linking in with regulatory requirements. The hazards (physical, health and environmental) evaluated in the Chemical Hazard Assessment need to be fully understood and validated into a 'robust summary'. It is also important to understand how exposure to workers, consumers and the environment can take place during manufacture, processing and use of substances (Exposure Scenarios) and then relate the hazards and exposure to determine risk.

The module also considers how the Chemical Safety Report is to be used in communication through the supply chain and how it relates to the main communication tool – the Safety Data Sheet.

Exercises will be held throughout the day to assist in the understanding of the concepts introduced.

Who should attend?

The module is designed for those involved in chemical safety assessment and communication, within the context of product stewardship and with a particular focus on supply regulations, including REACH.

Those attending should already understand the broad concepts of chemical supply legislation, including REACH, and also understand the science of data assessment including physico-chemical data, basic toxicology and basic ecotoxicity.

Benefits of attending

Attendance on this module will ensure that you are up to date with the requirements for the production of CSAs and CSRs under the REACH legislation. To ensure the most effective training with optimum involvement in participative exercises, there will be a limit on the number of students.

IOSH members are entitled to include this module in their continuing professional development records.

What you will learn

- Technical and regulatory background, eg
Basic principles of risk assessment, Legislative framework, Environmental and health hazards, Exposure modes, Background to EU methods / Technical Guidance Document / EUSES (European Union System for the Evaluation of Substances) / PEC (Predicted Environmental Concentration) and PNEC (Predicted No-effect Concentration) [Risk Characterisation Ratio]
- Exposure Scenarios / Emission Scenarios
Patterns of exposure, Understanding exposure scenarios, Use of default data, Environmental and workplace exposure, Exposure of general public
- 'Chemical Safety Assessment'
Interpretation and understanding of test data, What to look for in test reports, Quality of supplier safety data sheets, Looking for anomalies in data, Difficult materials, Identification of hazard from minimal data, Computer models, read across and educated guessing (SAR)
- The Chemical Safety Report
Overview of document, Purpose of document, Formatting and content, Communication through supply chain, Links with SDS
- EUSES / EASE (Estimation and Assessment of Substance Exposure)
Practical demonstration and Exercises in changing exposure and hazard parameters
- 'Advanced' testing and data gathering; further options
Environmental fate and the effects on treatment plants, Persistence and bioconcentration, Long-term health effects, Control and authorisation

Module Tutor

The training will be given by Mark Selby. Mark had many years' experience with a major test house before setting up his own business and runs the very successful modules on ecotoxicology and advanced SDS writing.