



**Chemical Hazards
Communication Society**

CHCS TRAINING

Module 20

The Extended SDS

Understanding Exposure Scenarios

For [dates and venues](#) please
see the CHCS web-site

**Registration 09.00
Start 09.30
Close 16.15**



MODULE 20 – THE EXTENDED SDS

When hazardous substances are registered under REACH, it is necessary to make an assessment of risk for known uses of the substance and resulting mixtures to ensure that the uses for which are 'suitable' and risk can be managed. As part of this, exposure estimates resulting from scenarios of use are part of the chemical safety report (CSR) and the results of the CSR need to be communicated onwards to downstream users.

The SDS is the primary tool for communication and it is now necessary to identify these uses and describe the scenarios of use that have been considered when registering substances. This extended SDS is now required for registered hazardous substances and as they filter down the supply line, the findings will need to be taken into account by those preparing mixtures; in due cause, all hazardous chemical materials will need to have associated exposure scenarios.

The exposure scenario (ES) for each of the uses identified in Section 1 of the SDS therefore needs to be part of the extended SDS and needs to be readable and relevant for the anticipated users (customers). The level of detail will reflect the degree of hazard and the knowledge of the recipient.

This one-day course aims to cover the basic principles of exposure assessment and the extended SDS, dealing mainly with the technical concepts and linking in with regulatory requirements. This goes beyond the CHCS seminar in June 2011 by providing technical basis with examples and describing implications for SDS recipients and authors.

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 receiving or preparing extended SDS will benefit.

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, as well as good working knowledge of the SDS. An understanding of the principles of DNELs and PNECs will also be of help, although some time will be devoted to explaining these concepts.

Benefits of attending

Attendance on this module will ensure that you are up to date with the requirements for the production of Extended SDS. To ensure the most effective training with optimum involvement in participative exercises, there will be a limit of 14 on the number of students.

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

Module Tutor

The training will be given by Mark Selby of Denehurst Chemical Safety Ltd. Mark had many years' experience with a major test house before setting up his own business.

What you will learn

This module will cover the following points to assist writers in producing Annexes to their SDSs.

Technical and regulatory background

Importance of communication – why is the ES needed ?

Basic principles of exposure and hazard assessment and understanding risk

Legislative framework for chemical supply

Hazard assessment - 'Chemical Safety Assessment'

Environmental and health hazards

Types of data and endpoints

Interpretation and understanding of data

Safe levels and limits for health (DNELs / WEL etc)

Safe levels for the environment (PNEC)

Considering exposure - Exposure Scenarios / Emission Scenarios

Patterns of exposure

Environmental exposure - atmospheric, aquatic and terrestrial

Workplace exposure – industrial and professional

Exposure to general public including secondary exposure through food and water

Use of default data and guidance

Risk Characterisation and introduction to simplified exposure model

Risk Characterisation

Manual estimates and model (EUSES)

Practical demonstration - changing exposure and hazard parameters

Understanding conclusions

The Extended SDS

Overview of requirements document

Practical review of template(s) including CSR templates

Practical review of formatting and content

Communication through supply chain

Further options

Practical attempts at preparing ES and determining if level of exposure is acceptable

Risk Management Measures

NOTE: Please feel free to print out this brochure and forward copies to personnel of your own or any other company who you feel might appreciate receiving it.