

## Module 6, Basic Ecotoxicology

*The importance in understanding the fate and effects of chemicals in environment*

**For dates and venues, please visit: [CHCS Training](#)**

Popular science is full of phrases such as 'biodegradable' and 'environmentally friendly', but is there really anything that is friendly to the environment? And are biodegradable materials safe? And why should we be bothered if a Daphnia dies?

To enable the chemical industry to take a responsible position in the care of the environment, it is important for those involved to have at least a basic understanding of the terms used in describing the fate and effects of chemicals in the environment and to understand how to test for environmental impact.

This training module is intended for those working within the chemical industry who need to understand the relationship between potential hazards of materials to the environment and the SDS and also considered CLP classification with respect to the environment with definitions such as P, B, T and M.

Whether receiving or writing an SDS, it is necessary to understand Section 12 of the SDS and the corresponding classification in Section 2. There is a lot of jargon used and this Module is intended to demonstrate the basics of ecotoxicity and remove some of the mystery of this topic.

### Topics Covered Include:

- The importance of knowing potential environmental effects
- Background to regulatory requirements for testing
- Test method references
- Basic types of ecotoxicity studies
- Descriptions of terms and jargon
- Importance of physico chemical properties
- Supporting chemical analysis
- Biodegradation and persistence
- Introduction to endocrine disruption
- Application of CLP with basic classification
- Understanding of Section 12 of the SDS

Numbers on the course are restricted to enable an informal atmosphere of discussion and time is being made available for group work examining some of the practical issues of study design and data interpretation.

### SAMPLE PROGRAMME

- Session 1  
Background to testing and regulatory requirements
- Session 2  
Data gathering and basics of testing
- Session 3  
Biodegradation and persistence (fate)
- Session 4  
Practicalities of laboratory testing
- Session 5  
Outcomes from testing  
Exercise
- Session 6  
Mixtures and effluent



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CHCS, 49 Station Road,  
Polegate, East Sussex,  
BN26 6EA

Tel: 0333 2102427  
[enquiries@chcs.org.uk](mailto:enquiries@chcs.org.uk)  
[www.chcs.org.uk](http://www.chcs.org.uk)

## Advanced Ecotoxicity – Module 12

Module 6 covers the basics for SDS writing, but [Module 12](#) that follows Module 6 takes it to the next level and covers difficult substances, sources of data, assessing environmental impact of mixtures, self-classification of mixtures etc and also introduces longer term studies. This in turn leads on to Modules 53 and 20 that cover the Chemical Safety Report and Extended-SDS. Please see [www.chcs.org.uk/chemical-hazards-training](http://www.chcs.org.uk/chemical-hazards-training) for details of all courses and dates.

### Module Tutor

The training will be given by Mark Selby of Denehurst Chemical Safety Ltd. Mark had many years' experience in this sector, from manufacturing industry, to contract test laboratories and now consulting.

### Module Deputy

Sue has many years' experience in the pharmaceutical, aerospace, marine, energy and nuclear industries and now works as a consultant covering REACH compliance, classification & labelling, safety data sheets and transport.

### Module Presentation

We will deliver this training using an online system, which we have used successfully for other CHCS events and training. There is no charge to delegates for using the software. The licence cost is borne by CHCS.

The sessions will run live and delegates can interact with the tutor and other delegates using their device microphone. The tutor will use a PowerPoint presentation, just as they would in face-to-face training. We will provide you with copies of the presentation and all other supporting documentation in advance of the training, by email. We will provide you with a document giving more details about using the software plus some tips for getting the best out of the day.

### Comments From Delegates Attending Previous Courses

*"Very good explanations and relating to real life scenarios. Very accessible examples and language used for beginners"*

*"Extremely well presented. Lots of extra information and anecdotes. Very interesting and informative"*

*"A really knowledgeable trainer"*

*"Interactive, detailed and with a good pace"*

*"It was very informative with lots of in-depth information to think about"*

### Reserving A Place

You can reserve a place at this course, online by visiting [Chemical Hazards Training](#), finding the next occurrence of the course and completing the on-line booking form. Courses are only available to CHCS Members. If you are not an existing member and would like to join, again, the process is simple and you can complete our online Membership Registration form at: [Join Us](#).

Our training courses are £285 (+VAT). However, we offer a **discounted price** of only £260 (+VAT) which expires 6 weeks before the date of the course. Please see the online event for more details.

### Please note these Conditions

Delegates can be substituted at any time, subject to payment of a membership fee if applicable. However, once booked, the full fee is payable. As this is a limited space training event, refunds can only be made if CHCS is notified in advance, **and** is able to successfully re-offer the place to another delegate.

CHCS reserves the right to alter or cancel the programme due to circumstances beyond our control, including insufficient interest. If CHCS cancels, then refunds will be made. For registrations made within 5 weeks of the course date, we only accept payment by Card.