

## 22. Terrestrial Invertebrate Ecotoxicity – Subclass 9.4

### 22.1. Basic elements and general considerations

The basic element to consider in determining hazard classification under the Hazardous Substances and New Organisms Act 1996 (HSNO Act) for effects on terrestrial invertebrates is acute toxicity to terrestrial invertebrates.

While data from internationally harmonised test methods are preferred, in practice, data from national methods may also be used where they are considered equivalent. In general, test data are to be derived using Organisation for Economic Co-operation and Development (OECD) test guidelines or equivalent according to the principles of Good Laboratory Practice (GLP). Where such data are not available, classification should be based on the best available data.

See section 18.6 in chapter 18 *above* for definitions of the key terms used in this chapter.

See section 1.3 in chapter 1 *above* for information about assessing data quality.

See Appendix 22A, *below* for a detailed list of acceptable test methods.

#### 22.1.1. Acute toxicity to terrestrial invertebrates

The toxicity of substances to terrestrial invertebrates is assessed by oral and contact toxicity.

The usual acute tests for effects on terrestrial invertebrates used for HSNO Act classification are:

- 48-hour LD<sub>50</sub> for acute oral toxicity to honeybees (OECD 213 or equivalent); and
- 48-hour LD<sub>50</sub> for acute contact toxicity to honeybees (OECD 214 or equivalent).

The lowest value from these tests, with the results expressed in  $\mu\text{g/l}$  terrestrial invertebrate, is used to classify the substance.

Guidelines (Society of Environmental Toxicology and Chemistry and European and Mediterranean Plant Protection Organisation (Candolfi et al. 2000)) are available to assess the effects of plant protection products to non-target arthropods (other than honeybees). The approaches of these tests differ from the HSNO Act threshold as they are based on field application rates, which mean these test data cannot be readily compared with the threshold. The guidelines for honeybees use the same units of micrograms per bee as the in HSNO Act for its threshold, and can be readily used.

#### Conversion of data

The results of a feeding toxicity test can be expressed as a median lethal concentration (LC<sub>50</sub>) (milligrams of substance in diet). These results can be converted to the threshold format by multiplying the average quantity of treated diet per bee ( $\mu\text{L}$ ) by the concentration of substance in the diet per  $\mu\text{L}$ . The 'feeding test' guideline (SETAC) states that the treated diet should be prepared such that an average of 10–20  $\mu\text{L}$  of diet is consumed by each bee.

Therefore, if the LC<sub>50</sub> for a substance is 1  $\mu\text{g}/\mu\text{L}$  of diet and 10  $\mu\text{L}$  of diet was consumed, the LD<sub>50</sub> would be:



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