



## SAFETY ASSESSMENT

### Plant, Aquatic and Other Species

- Acute and prolonged toxicity to fish, earthworms and *Daphnia magna*
- Algal growth inhibition (freshwater and marine)
- Fish early life stage
- Radiolabeled bioaccumulation and/or metabolism in fish
- *Lemna spp.* growth inhibition
- Acute toxicity to *Chironomus riparius*
- Effects on soil microbial activity, carbon mineralization and nitrogen transformation
- Beneficial arthropods

## Environmental Sciences: Ecotoxicology

Charles River offers a comprehensive range of testing services to assess the environmental risk of pharmaceutical, biopharmaceutical, food additive, chemical, biocide and agrochemical products, as well as expertise in global regulations. We design studies to meet specific data requirements that take into account the properties of the test item and its potential routes of environmental exposure. Our scientists are skilled in the handling of difficult test items (e.g., volatile, unstable, complex and poorly soluble mixtures), and our facilities are specifically equipped to support complex test situations.

### Ecotoxicology

Designed for studies using radioisotopes, our flexible laboratory facilities can handle both aquatic (static, semi-static and flow-through) and terrestrial ecotoxicology investigations. Each laboratory has independent environmental controls and incubators to accommodate a wide variety of test organisms and a range of test species. Most ecotoxicology tests can be conducted with a radiolabeled test item if necessary. In addition, we have conducted studies in accordance with the OECD Guidance Document on "Aquatic Toxicity Testing of Difficult Substances and Mixtures."

### Support Services

Our dedicated team of experienced analysts specializes in method development and validation for aqueous samples supporting all ecotoxicology studies. This team works closely with the ecotoxicologists to ensure that potential issues, such as solubility and stability under test conditions, are addressed early within a test program.

EVERY STEP OF THE WAY