

# 40 C.F.R. § 158.630

## Terrestrial and aquatic nontarget organisms data requirements table.

- (a) *General.* Sections 158.100 through 158.130 describe how to use this table to determine the terrestrial and aquatic nontarget data requirements for a particular pesticide product. Notes that apply to an individual test including specific conditions, qualifications, or exceptions to the designated test are listed in paragraph (e) of this section.
- (b) *Use patterns.* (1) The terrestrial use pattern includes products classified under the general use patterns of terrestrial food crop, terrestrial feed crop, and terrestrial nonfood crop. The aquatic use pattern includes products classified under the general use patterns of aquatic food crop and aquatic nonfood use patterns. The greenhouse use pattern includes products classified under the general use patterns of greenhouse food crop and greenhouse nonfood crop. The indoor use pattern includes products classified under the general use patterns of indoor food and indoor nonfood use.
- (2) Data are also required for the general use patterns of forestry and residential outdoor use.
- (3) In general, for all outdoor end-uses, including turf, the following studies are required: Two avian oral LD<sub>50</sub>, two avian dietary LC<sub>50</sub>, two avian reproduction studies, two freshwater fish LC<sub>50</sub>, one freshwater invertebrate EC<sub>50</sub>, one honeybee acute contact LD<sub>50</sub>, one freshwater fish early-life stage, one freshwater invertebrate life cycle, and three estuarine acute LC<sub>50</sub>/EC<sub>50</sub> studies — fish, mollusk and invertebrate. All other outdoor residential uses, *i.e.*, gardens and ornamental will not usually require the freshwater fish early-life stage, the freshwater invertebrate life-cycle, and the acute estuarine tests.
- (c) *Key.* R = Required; CR = Conditionally required; NR = Not required; TGAI = Technical grade of the active ingredient; TEP = Typical end-use product; PAI = Pure active ingredient; EP = end-use product. Commas between the test substances (*i.e.*, TGAI, TEP) indicate that data may be required on the TGAI or the TEP depending on the conditions set forth in the test note.
- (d) *Table.* The following table shows the data requirements for nontarget terrestrial and aquatic organism. The table notes are shown in paragraph (e) of this section.

### Terrestrial and Aquatic Nontarget Organism Data Requirements

| Guideline Number            | Data Requirement | Use Pattern |         |          |                     |            |        | Test substance | Test Note No. |
|-----------------------------|------------------|-------------|---------|----------|---------------------|------------|--------|----------------|---------------|
|                             |                  | Terrestrial | Aquatic | Forestry | Residential Outdoor | Greenhouse | Indoor |                |               |
| Avian and Mammalian Testing |                  |             |         |          |                     |            |        |                |               |

|  |   |    |    |    |    |    |    |                      |                  |
|--|---|----|----|----|----|----|----|----------------------|------------------|
| 850.2100   | Avian oral toxicity   | R  | R  | R  | R  | CR | CR | TGAI                 | 1, 2, 3          |
| 850.2200   | Avian dietary toxicity  | R  | R  | R  | R  | NR | NR | TGAI                 | 1, 4             |
| 850.2400   | Wild mammal toxicity  | CR | CR | CR | CR | NR | NR | TGAI                 | 5                |
| 850.2300   | Avian reproduction  | R  | R  | R  | R  | NR | NR | TGAI                 | 1, 4             |
| 850.2500   | Simulated or actual field testing                             | CR | CR | CR | CR | NR | NR | TEP                  | 6, 7             |
| Aquatic Organisms Testing                                |   |    |    |    |    |    |    |                      |                  |
| 850.1075   | Freshwater fish toxicity                                      | R  | R  | R  | R  | CR | CR | TGAI, TEP            | 1, 2, 8, 9, 26   |
| 850.1010   | Acute toxicity freshwater invertebrates                       | R  | R  | R  | R  | CR | CR | TGAI, TEP            | 1, 2, 9, 10, 26  |
| 850.1025<br>850.1035<br>850.1045<br>850.1055<br>850.1075 | Acute toxicity estuarine and marine organisms                 | R  | R  | R  | R  | NR | NR | TGAI, TEP            | 1, 9, 11, 12, 26 |
| 850.1300   | Aquatic invertebrate life cycle (freshwater)                  | R  | R  | R  | R  | NR | NR | TGAI                 | 1, 10, 12        |
| 850.1350   | Aquatic invertebrate life cycle (saltwater)                   | CR | CR | CR | CR | NR | NR | TGAI                 | 12, 14, 15       |
| 850.1400   | Fish early-life stage (freshwater)                            | R  | R  | R  | R  | NR | NR | TGAI                 | 1, 12, 13        |
| 850.1400   | Fish early-life stage (saltwater)                             | CR | CR | CR | CR | NR | NR | TGAI                 | 12, 15, 16       |
| 850.1500   | Fish life cycle   | CR | CR | CR | CR | NR | NR | TGAI                 | 17, 18           |
| 850.1710<br>850.1730<br>850.1850                         | Aquatic organisms bioavailability, biomagnification, toxicity | CR | CR | CR | CR | NR | NR | TGAI, PAI, degradate | 19               |

|                           |   |    |    |    |    |    |    |      |        |
|---------------------------|---|----|----|----|----|----|----|------|--------|
| 850.1950                  | Simulated or actual field testing for aquatic organisms     | CR | CR | CR | CR | NR | NR | TEP  | 7, 20  |
| Sediment Testing          |   |    |    |    |    |    |    |      |        |
| 850.1735                  | Whole sediment: acute freshwater invertebrates              | CR | CR | CR | CR | NR | NR | TGAI | 21     |
| 850.1740                  | Whole sediment: acute marine invertebrates                  | CR | CR | CR | CR | NR | NR | TGAI | 21, 23 |
|                           | Whole sediment: chronic invertebrates freshwater and marine | CR | CR | CR | CR | NR | NR | TGAI | 22, 23 |
| Insect Pollinator Testing |   |    |    |    |    |    |    |      |        |
| 850.3020                  | Honeybee acute contact toxicity                             | R  | CR | R  | R  | NR | NR | TGAI | 1      |
| 850.3030                  | Honey bee toxicity of residues on foliage                   | CR | CR | CR | CR | NR | NR | TEP  | 24     |
| 850.3040                  | Field testing for pollinators                               | CR | CR | CR | CR | NR | NR | TEP  | 25     |

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