

TerrPlant v. 1.2.2

Green values signify user inputs (Tables 1, 2 and 4).

Input and output guidance is in popups indicated by red arrows.

| Table 1. Chemical Identity. |                                    |
|-----------------------------|------------------------------------|
| Chemical Name               | Metolachlor/S-Metolachlor          |
| PC code                     | 108801/108800                      |
| Use                         | Corn (maximum use rate - food use) |
| Application Method          | Aerial Spray                       |
| Application Form            | Liquid                             |
| Solubility in Water (ppm)   | 480 mg/L                           |

| Table 2. Input parameters used to derive EECs. |        |       |       |
|------------------------------------------------|--------|-------|-------|
| Input Parameter                                | Symbol | Value | Units |
| Application Rate                               | A      | 4     |       |
| Incorporation                                  | I      | 1     | none  |
| Runoff Fraction                                | R      | 0.05  | none  |
| Drift Fraction                                 | D      | 0.05  | none  |

| Table 3. EECs for Metolachlor/S-Metolachlor. Units in . |                      |     |
|---------------------------------------------------------|----------------------|-----|
| Description                                             | Equation             | EEC |
| Runoff to dry areas                                     | $(A/I)*R$            | 0.2 |
| Runoff to semi-aquatic areas                            | $(A/I)*R*10$         | 2   |
| Spray drift                                             | $A*D$                | 0.2 |
| Total for dry areas                                     | $((A/I)*R)+(A*D)$    | 0.4 |
| Total for semi-aquatic areas                            | $((A/I)*R*10)+(A*D)$ | 2.2 |

| Table 4. Plant survival and growth data used for RQ derivation. Units are in . |                    |        |                  |        |
|--------------------------------------------------------------------------------|--------------------|--------|------------------|--------|
| Plant type                                                                     | Seedling Emergence |        | Vegetative Vigor |        |
|                                                                                | EC25               | NOAEC  | EC25             | NOAEC  |
| Monocot                                                                        | 0.0048             | 0.001  | 0.016            | 0.0031 |
| Dicot                                                                          | 0.0057             | 0.0003 | 0.03             | 0.025  |

| Table 5. RQ values for plants in dry and semi-aquatic areas exposed to Metolachlor/S-Metolachlor through runoff and/or spray drift.* |               |         |              |             |
|--------------------------------------------------------------------------------------------------------------------------------------|---------------|---------|--------------|-------------|
| Plant Type                                                                                                                           | Listed Status | Dry     | Semi-Aquatic | Spray Drift |
| Monocot                                                                                                                              | non-listed    | 83.33   | 458.33       | 41.67       |
| Monocot                                                                                                                              | listed        | 400.00  | 2200.00      | 200.00      |
| Dicot                                                                                                                                | non-listed    | 70.18   | 385.96       | 35.09       |
| Dicot                                                                                                                                | listed        | 1333.33 | 7333.33      | 666.67      |
| *If RQ > 1.0, the LOC is exceeded, resulting in potential for risk to that plant group.                                              |               |         |              |             |