

## Pendimethalin (CAS no. 40487-42-1)

[Current status]

Finished Tier 1 assessment (Tier 2 *in vivo* tests pending)



### Results of Reliability Evaluation (based on literature information)

Suggested Effects							
Estrogenic	Anti-estrogenic	Androgenic	Anti-androgenic	Thyroidal	Anti-thyroidal	Ecdysone	Others*
P	-	-	-	-	-	-	-

P: Effects suggested by existing information

-: Effects NOT suggested by existing information

Others\*: Hypothalamic-Pituitary-Gonad Axis etc.

\*\*.: Effects suggested by USEPA EDSP

### Results of Tier 1 *in vitro* tests

Tested Mode of Actions							
Estrogenic	Anti-estrogenic	Androgenic	Anti-androgenic	Thyroidal	Anti-thyroidal	Ecdysone	Others
P	-	-	-	-	-	-	-

P: EC<sub>50</sub> or IC<sub>50</sub> values were detected

N: EC<sub>50</sub> or IC<sub>50</sub> values were not detected

To be implemented: Mode of actions selected but not tested yet

-: Mode of actions not selected for testing

### Results of Tier 1 *in vivo* tests

#### Fish Short Term Reproduction Assay (FSTRA: OECD TG229) using Medaka

An increase in male hepatic vitellogenin level was observed at sublethal concentrations, indicating its estrogenic effect.