

for third party submission of information on potential candidates for substitution

HEXAFLUMURON

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1. ALTERNATIVE IDENTITY AND PROPERTIES

The alternative products used for the control of termites in Europe are either used in baiting systems, either as liquids injected. The following template shows examples of potential substitutes to Hexaflumuron.

Example of Product name on the market	Technique	Active substance	CAS Number	PT 18 inscription	PBT
TERMIDOR	Injection	Fipronil	120068-37-3	Yes	No
TERMIGUARD	Bait	Diflubenzuron	35367-38-5	Yes	No
LABYRINTH	Bait	Diflubenzuron	35367-38-5	Yes	No
MYTHIC	Injection	Chlorfenapyr	122453-73-0	Yes	No
SARPALO ATS 100	Injection	Alpha-cypermethrin	67375-30-8	Yes	No

2. TECHNICAL FEASIBILITY

All the current alternatives listed in chapter 1 have been on the market for many years. The technical feasibility is exactly the same as the hexaflumuron termite baiting for the baiting systems listed (i.e. Termigard or Labyrinth). These alternatives are termite baits placed in above ground boxes in order to contaminate and eliminate the termite colonies.

The other alternatives (fipronil, chlorfenapyr, alpha-cypermethrin) are applied by injection of diluted formulations in the wood and in the walls of the buildings. This technique has proven its efficacy for many years (also approved by FCBA in the CTB-P+ and CTB-A+ quality marks).

3. ECONOMIC FEASIBILITY

As the professional termite control companies are used to apply either a termite baiting system, either a liquid, the cost for a treatment is roughly the same for all the actives listed.

4. HAZARDS AND RISKS OF THE ALTERNATIVE

The alternative to hexaflumuron listed above show less hazards and risks than hexaflumuron as all these actives are not classified PBT.

5. AVAILABILITY

All the alternatives listed are available on the territories where termite attacks occur (Portugal, Spain, France, Italy and Greece).

6. CONCLUSION ON SUITABILITY AND AVAILABILITY OF THE ALTERNATIVE

All the alternatives listed are authorized actives for a PT18 use.

7. OTHER COMMENTS

Several websites sell hexaflumuron on line. More, it is really easy for a non-professional user to buy hexaflumuron baits, but also hexaflumuron liquid concentrated for preparing the bait:

http://www.anti-termite-traitements.com/epages/62012181.sf/fr_FR/?ObjectPath=/Shops/62012181/Categories/%22App%C3%A2t%20Hexaflumeron%22

That vendor also sells a hexaflumuron liquid formulation **available for homeowners** at a concentration of 100g/L and in containers of 1 liter to 5 liters. The dilution rate proposed is 0.5 to 2.5 gr per liter.

Such a low percentage and a x5 range of dilution lead to high risks for the operator and for the environment. The remaining quantity of the 5 liter container will be released in the environment sooner or later, at a concentration of 100gr/L.

The same vendor explains online how to make some hexaflumuron bait. The pictures are particularly explicit regarding the exposure of human and environment to hexaflumuron.



The vendor does not recommend to wear gloves



What happens with the remaining liquid?

The impossibility to control all the distribution channels that lead to the end user of hexaflumuron, which is classified as a PBT, is a dangerous risk for environmental and human high exposure.

REFERENCES

APPENDIXES