

European Commission



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Napropamide-M

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Rapporteur Member State: United Kingdom

Version History

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B.3. DATA ON APPLICATION

B.3.1. USE OF THE ACTIVE SUBSTANCE

Agriculture, horticulture and viticulture.

B.3.2. FUNCTION

Herbicide.

B.3.3. EFFECTS ON HARMFUL ORGANISMS

Systemic action. The active substance napropamide-M is absorbed by the roots, with translocation acropetally.

B.3.4. FIELD OF USE ENVISAGED

The proposed field of use is weed control in agriculture, horticulture and viticulture.

B.3.5. HARMFUL ORGANISMS CONTROLLED AND CROPS OR PRODUCTS PROTECTED OR TREATED

Napropamide-M is a new active substance and there are no existing uses in the EU. The intended use is the control of broad-leaved and grass weeds in a range of annual and perennial crops (cane fruit, citrus, forest nursery, herbs, ornamentals, stone fruit, strawberry, tobacco, vegetable brassicas, vine, oilseed rape).

Details of harmful organisms against which protection is afforded are presented below:

Crop	Crop code	Disease/Organism	Disease/Organism code
Winter oilseed rape	BRSNN	Annual grasses and broad-leaved weeds	GGGAN BBBBB
Brassica vegetable crops	1BRSG	Annual grasses and broad-leaved weeds	GGGAN BBBBB

B.3.6. MODE OF ACTION

Napropamide-M is classified in HRAC Group K3 – Inhibition of cell division/WSSA Group 15.

B.3.7. INFORMATION ON THE OCCURRENCE OR POSSIBLE OF THE DEVELOPMENT OF RESISTANCE AND APPROPRIATE MANAGEMENT STRATEGIES

Napropamide-M is the resolved single isomer version of racemic napropamide which has been established on the market in plant protection products for a number of years. Napropamide-M belongs to the chemical family of acetamides which are mitosis inhibitors. The Herbicide Resistance Action Committee (HRAC) classifies the active substance in mode of action group K3 – inhibition of cell division via inhibition of very long chain fatty acid (VLCFA) synthesis. According to the International Survey of Herbicide-Resistant Weeds database (<http://www.weedscience.org>) resistance to Group K3 herbicides globally has been reported in 5 weed species. One case has been reported in Europe in ALOMY although this was not resistance specifically to napropamide, although this does highlight the importance of submission of effectiveness data on black grass (ALOMY) in the Maritime zone at product authorisation stage.

The risk of resistance to Napropamide-M developing in the target weed species is considered low. Nevertheless, to reduce the risk further it is good agronomic practice to follow the label recommendations and adopt

appropriate integrated weed management strategies. The latter could include the use of rotation, cultivation and alternation of herbicides with different modes of action.

B.3.8. REFERENCES RELIED ON

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
No reports submitted								