

Title (en)
SYSTEMIC PESTICIDE PRODUCT AND PROCESSES FOR MAKING AND USING IT.

Title (de)
SYSTEMISCHES SCHÄDLINGSBEKÄMPFUNGSMITTEL SOWIE VERFAHREN ZU DESSEN HERSTELLUNG UND VERWENDUNG.

Title (fr)
PRODUIT DE PESTICIDE SYSTEMIQUE ET PROCEDES DE FABRICATION ET D'UTILISATION DE CELUI-CI.

Publication
EP 0077399 A4 19830902 (EN)

Application
EP 82901877 A 19820428

Priority
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• US 37030182 A 19820422

Abstract (en)
[origin: WO8203747A1] Biodegradable products release, when inserted into the soil systemic pesticides at a controlled rate over a prolonged period of time. The biodegradable compositions can be formed into spikes that can be driven into the soil without sustaining damages. The products comprise a solid, hydrophilic water-soluble polymeric binder and a systemic pesticide. Optional ingredients include plasticizers, fillers, colorants and a coating. The products are made by mixing the dry ingredients and shaping the resulting mixture by melt extrusion injection molding or another suitable method to form suitable shapes such as spikes. In the alternative, the resulting mixture is injection-molded to form products having desired shapes. The formed products can then be coated with a water permeable coating. The products are inserted or driven into the soil in the vicinity of the plant. The moisture of the soil penetrates the biodegradable coating (if any) the matrix and begins to dissolve the matrix and the pesticide contained therein. The pesticide is initially rapidly released then it is released in a controlled manner for a prolonged period of time. The released pesticide is absorbed by the roots of the plant into the sap making it poisonous to pests. The initial rapid rate of release results in quickly killing at least a major portion of the pests on the plants in the vicinity of the product and the subsequent controlled release kills the remaining pests and prevents the reinfestation of the plants.

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