

Title (en)

Pesticidal formulation for paddy field application

Title (de)

Pestizidformulierung für Anwendung in Reisfeldern

Title (fr)

Formulation de pesticide pour l'application dans les rizières

Publication

EP 0837628 A1 19980429 (EN)

Application

EP 97920970 A 19970502

Priority

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Abstract (en)

[origin: WO9741726A1] The present invention discloses the jumbo formulations for hand-throw application into paddy water or on irrigation gates, comprising liquid pesticide mixture absorbed into lump-shaped porous carrier in water-soluble bag. The jumbo formulations of the invention are prepared by either packing the granular materials such as sea sand into the porous bag which is enveloped with water-soluble bag, absorbing liquid pesticide mixture of active ingredient of the pesticide, surfactants, solvents, and auxiliary agents into the bag, and heat-sealing the above; or preparing the block-shaped porous carrier by binding granular materials with adhesives, inserting the carrier into the water-soluble bag, absorbing the said liquid pesticide mixture into the bag, and heat-sealing the above. The present jumbo formulations are not disintegrated in water and thus maintain their original shapes. In addition, the present jumbo formulations have excellent spreadability and dispersability of active ingredients. The active ingredients from the present jumbo formulations are evenly dispersed throughout all the applied area of paddy field only by hand-throw application of several to several tens of the pack-like pieces of the formulations per 10a. The present jumbo formulations greatly reduce the danger of being poisoned by pesticides and save the labor and the time required for manual application of the pesticides. The present jumbo formulations are prepared by simple formulation processes with cheap materials. Furthermore, the present jumbo formulations provide excellent controlling effects on weeds, insect pests, and plant diseases without causing severe phytotoxicity to rice plants, since their dispersion in paddy water is not much influenced by any impediments on the paddy water and wind.

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IT

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